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| Placenta No. | Kd Analog (nM) | | |
|--------------|----------------|-----------|------------------|
| | GnRH | Busarelin | Argluteinyl INH2 |
| Placenta 2 | 2000 | 746 | 112 |
| Placenta 3 | 1666 | 503 | 266 |
| Placenta 4 | 3597 | 488 | 529 |
| Mean | 2421 | 579 | 302 |
| SEM | 596 | 84 | 122 |
| | | | 23 |

| Placenta No. | Normalized to mammalian GnRH Kd analog/Kd mGnRH | | |
|--------------|--|-----------|------------------|
| | GnRH | Busarelin | Argluteinyl INH2 |
| Placenta 2 | 1.000 | 0.373 | 0.056 |
| Placenta 3 | 1.000 | 0.302 | 0.160 |
| Placenta 4 | 1.000 | 0.136 | 0.147 |
| Mean | | 0.270 | 0.121 |
| SEM | | 0.070 | 0.033 |
| | | | 0.003 |

Fig. 1

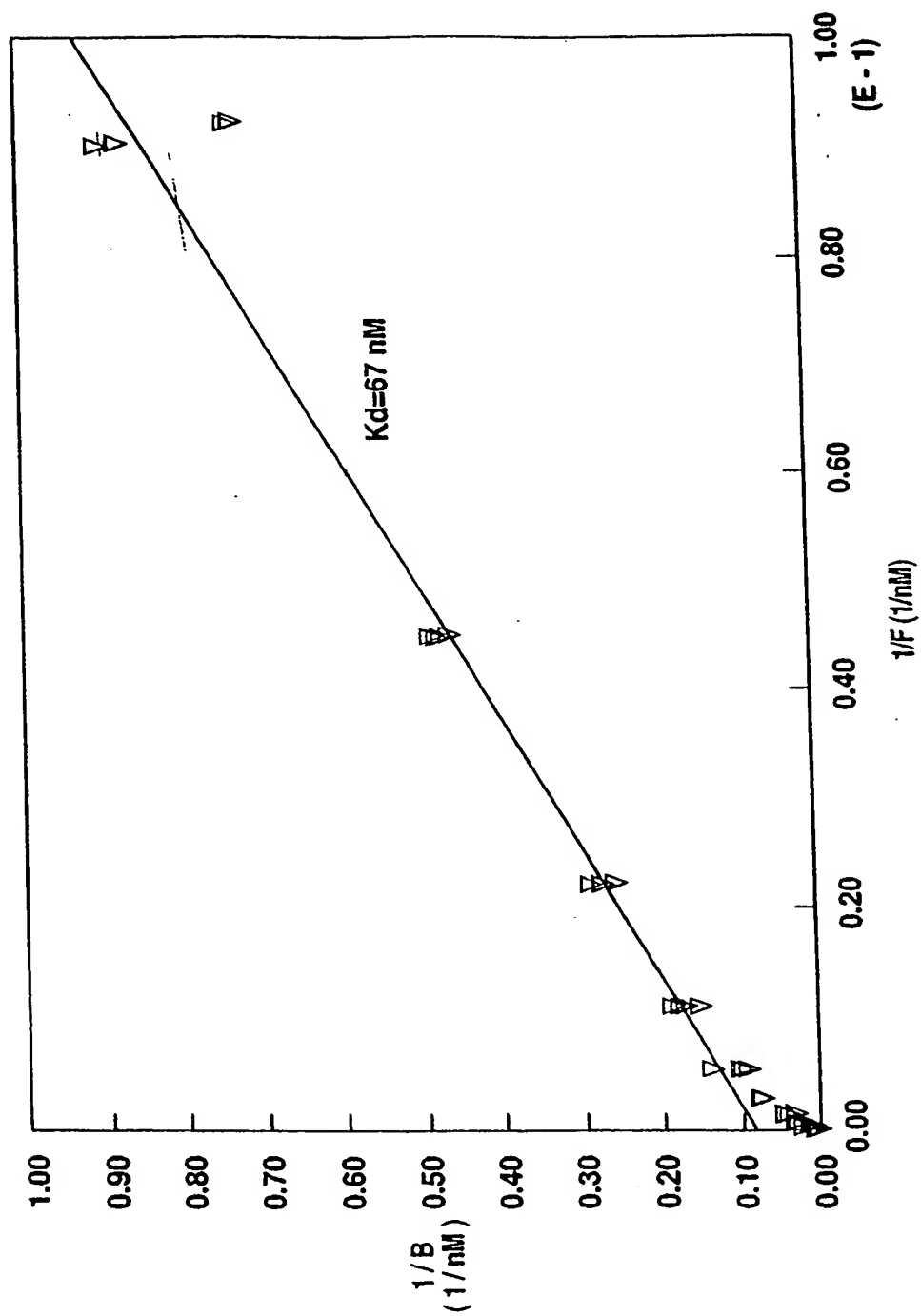


Fig. 2

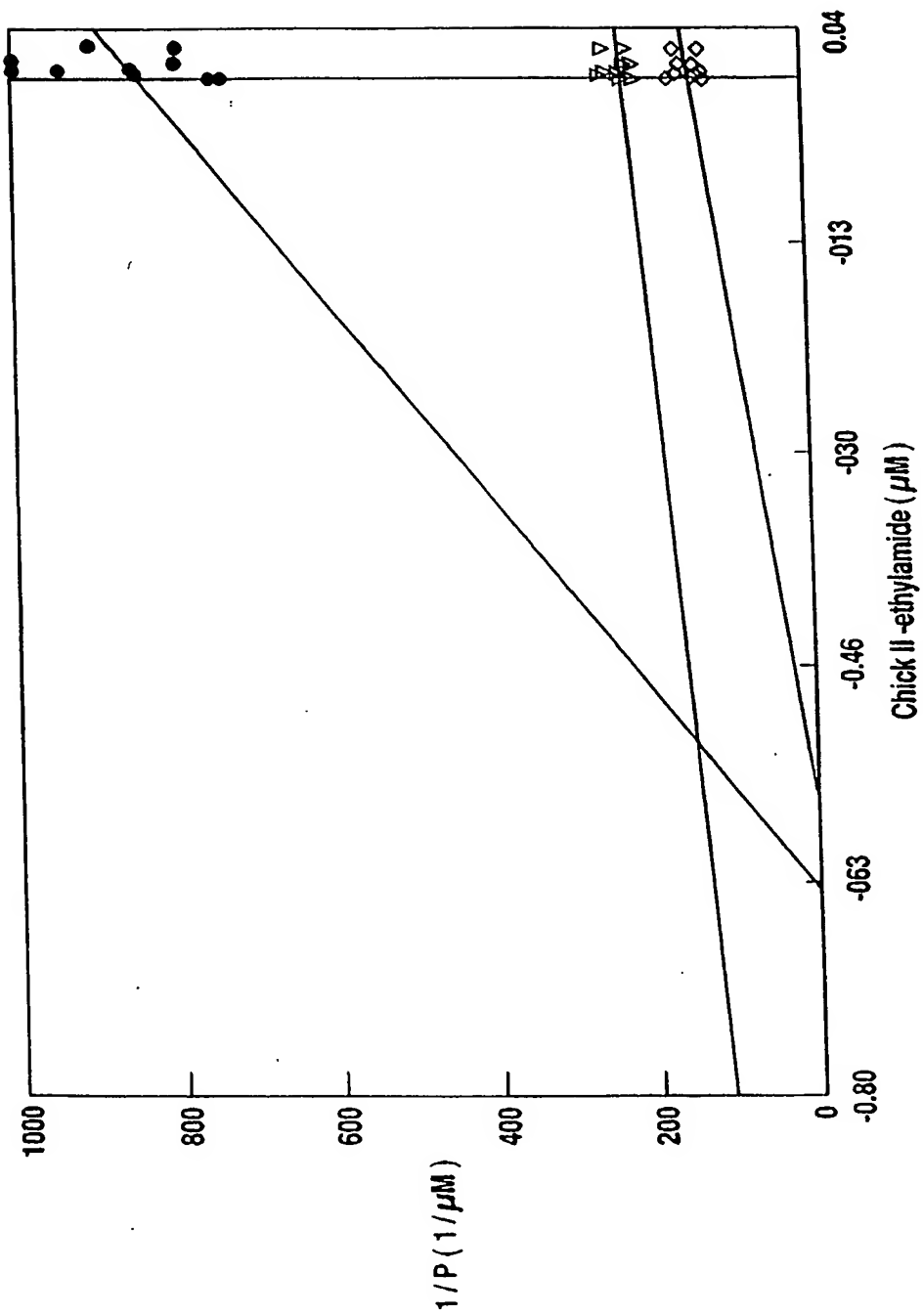


Fig. 3

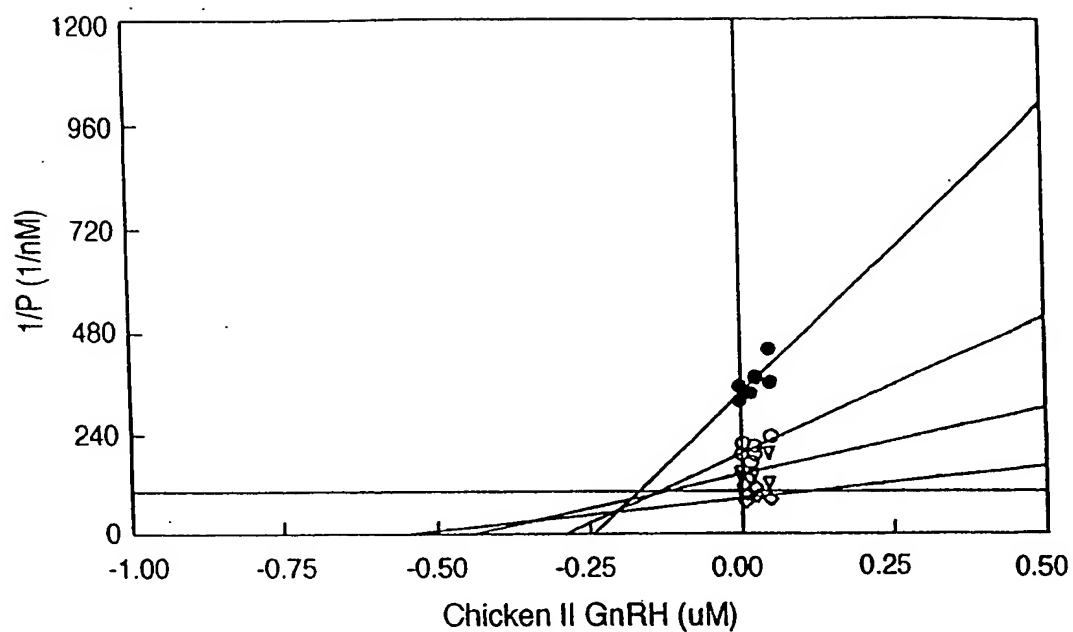


Fig. 4A

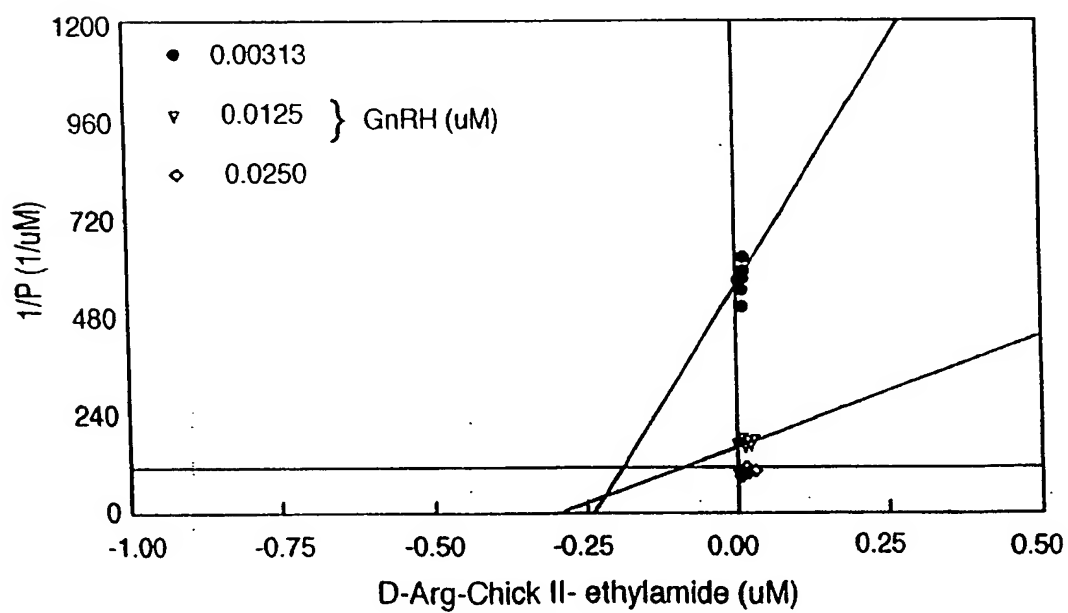


Fig. 4B

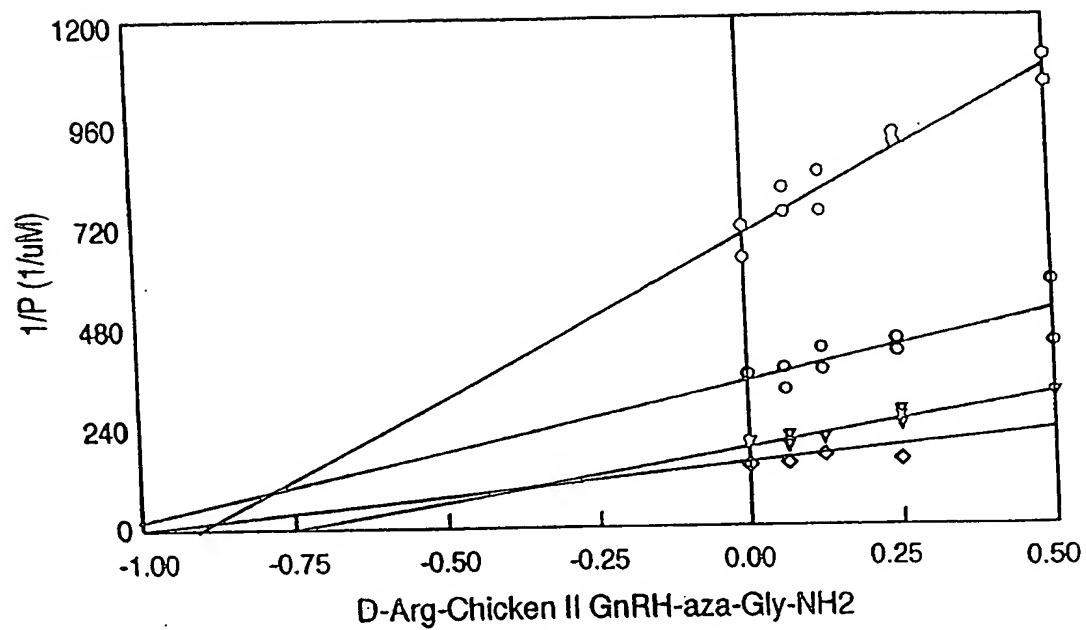


Fig. 4C

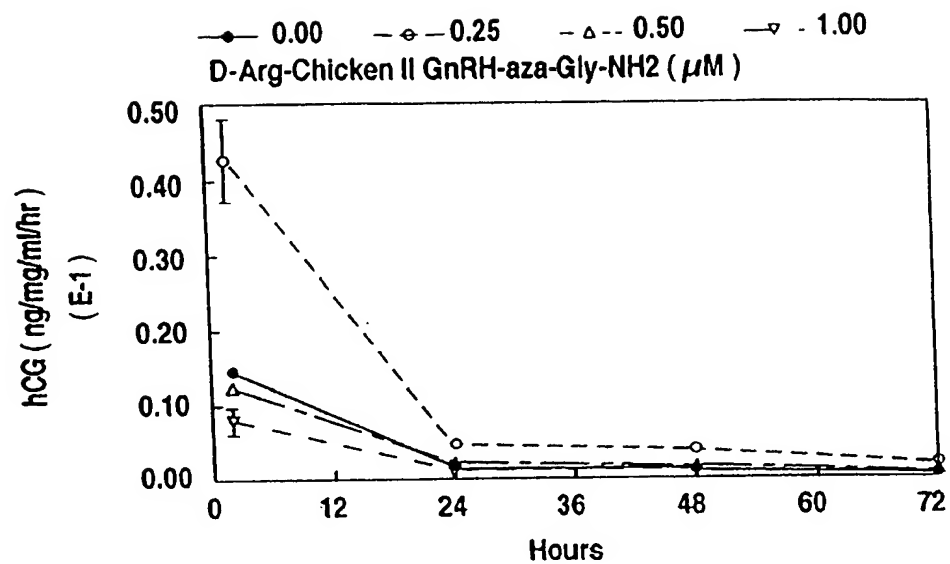


Fig. 5A

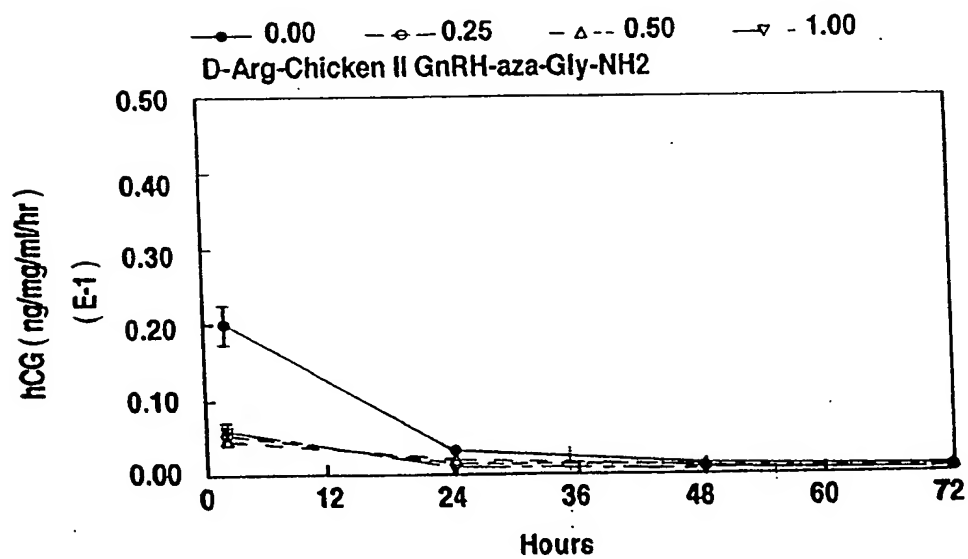
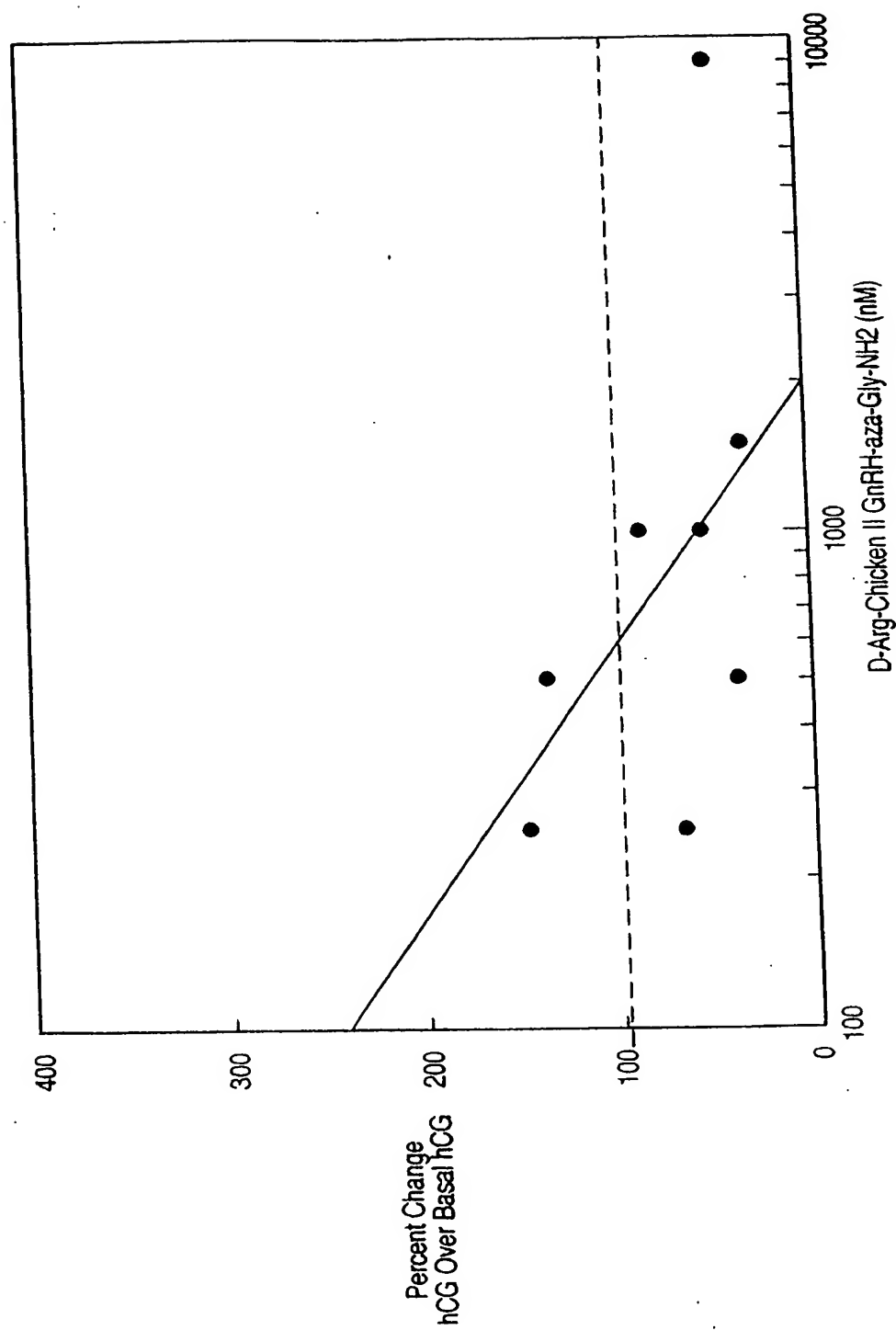


Fig. 5B



| hCG (percentage of basal release) | | | | | |
|-----------------------------------|-------------|-------|-------|-------|-------|
| Term placenta | Analog (uM) | | | | |
| | 0.250 | 0.500 | 1.000 | 1.500 | 9.000 |
| PI 1 | 392 | 136 | 87 | | |
| PI 2 | 67 | 39 | 56 | | |
| PI 3 | 79 | 93 | | | |
| PI 4 | 147 | | | 34 | 47 |
| Mean | 171 | 89 | 72 | 34 | 47 |
| SEM | 64 | 19 | 9 | | |

Fig. 7

| Progesterone (ng/mL/mg/h) | | | | | |
|---------------------------|-------------|-------|-------|-------|-------|
| Term placenta | Analog (uM) | | | | |
| | 0.000 | 0.250 | 0.500 | 1.000 | 9.000 |
| PI 1 | 0.103 | 0.088 | 0.075 | 0.048 | |
| PI 2 | 0.077 | 0.058 | 0.045 | 0.054 | |
| PI 3 | 0.198 | 0.159 | 0.170 | 0.165 | |
| PI 4 | 0.081 | 0.081 | | | 0.063 |
| Mean | 0.115 | 0.097 | 0.097 | 0.089 | 0.063 |
| SEM | 0.024 | 0.018 | 0.028 | 0.029 | |

Fig. 8

| Term placenta | PGE ₂ (pg/mL/mg/h) | | | |
|------------------|-------------------------------|--------|--------|-------|
| | Analog (uM) | | | |
| | 0.000 | 0.250 | 0.500 | 1.000 |
| PI 1 | 8.300 | 3.100 | 4.600 | 5.500 |
| PI 2 | 4.685 | 3.430 | 5.631 | 6.308 |
| PI 3 | 9.200 | 11.500 | 15.300 | |
| Mean | 7.395 | 6.010 | 8.510 | 5.904 |
| SEM | 1.043 | 2.113 | 2.613 | 0.233 |

Fig. 9A

| Term placenta | PGE ₂ (pg/mL/mg/h) | | | |
|------------------|-------------------------------|--------|--------|--------|
| | Analog (uM) | | | |
| | 0.000 | 0.250 | 0.500 | 1.000 |
| PI 1 | 5.800 | 6.000 | 3.200 | 2.500 |
| PI 2 | 34.000 | 14.400 | 16.800 | 16.800 |
| PI 3 | 54.700 | 31.400 | 42.500 | 46.600 |
| Mean | 31.500 | 17.267 | 20.833 | 21.967 |
| SEM | 9.892 | 5.440 | 8.340 | 9.481 |

Fig. 9B

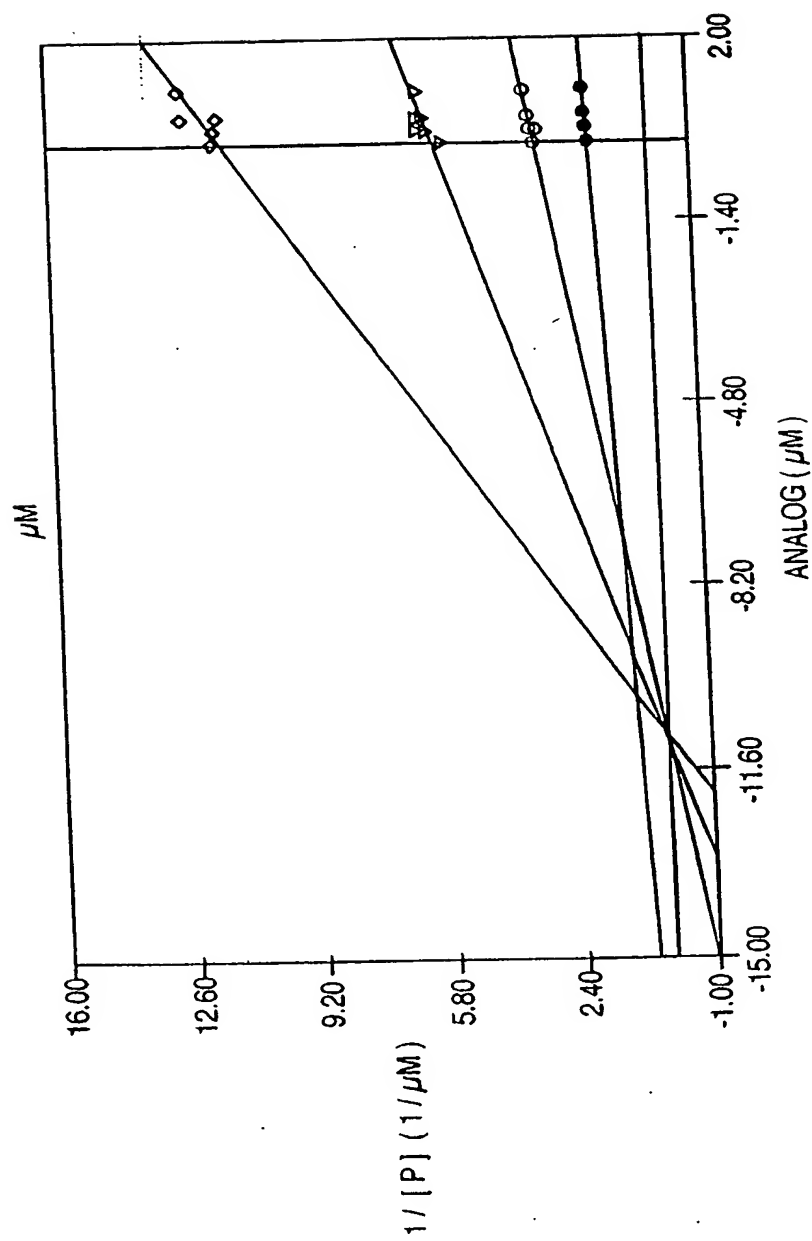


Fig. 10

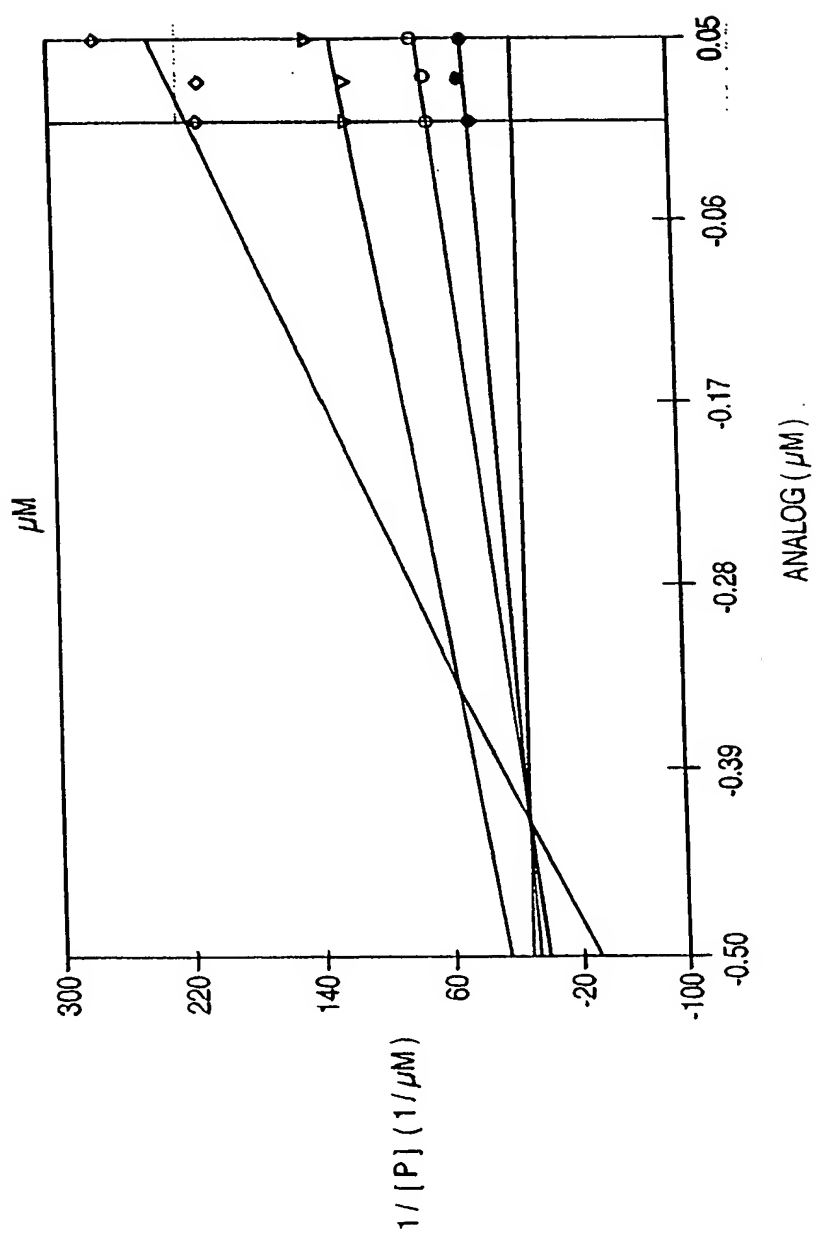


Fig. 11

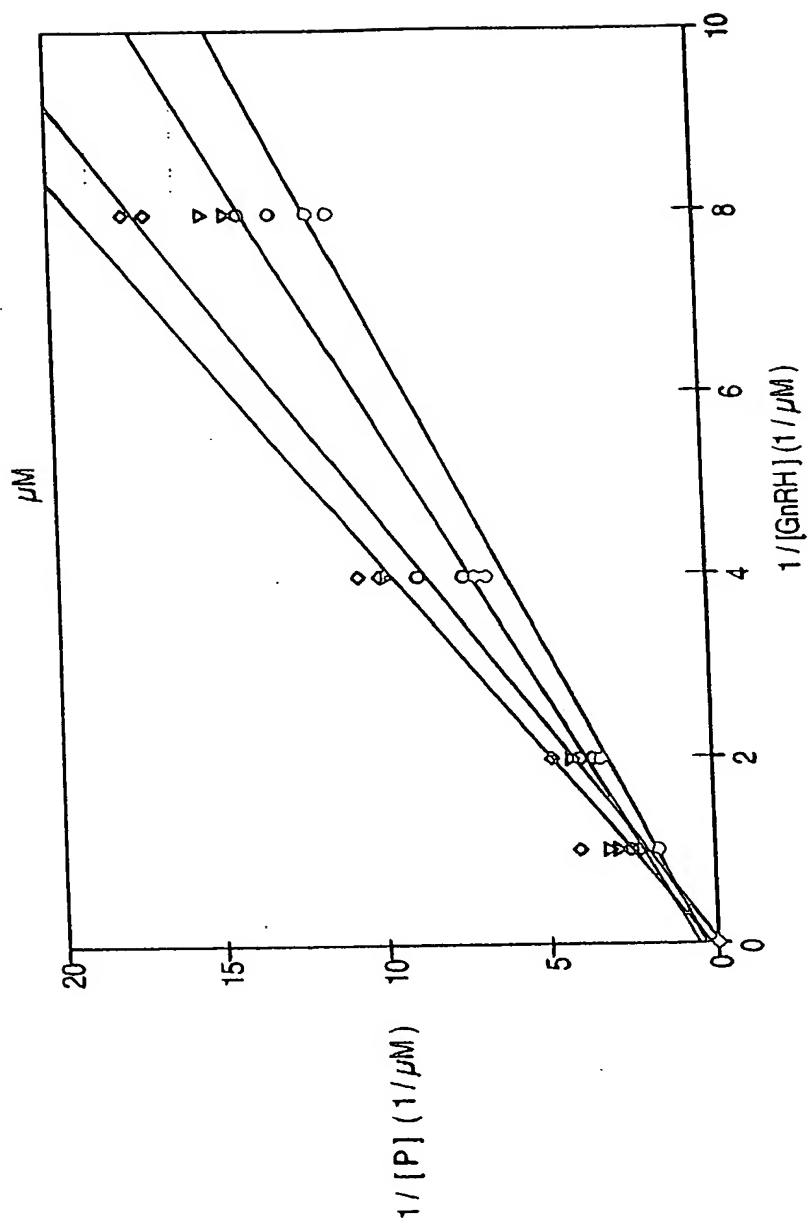


Fig. 12A

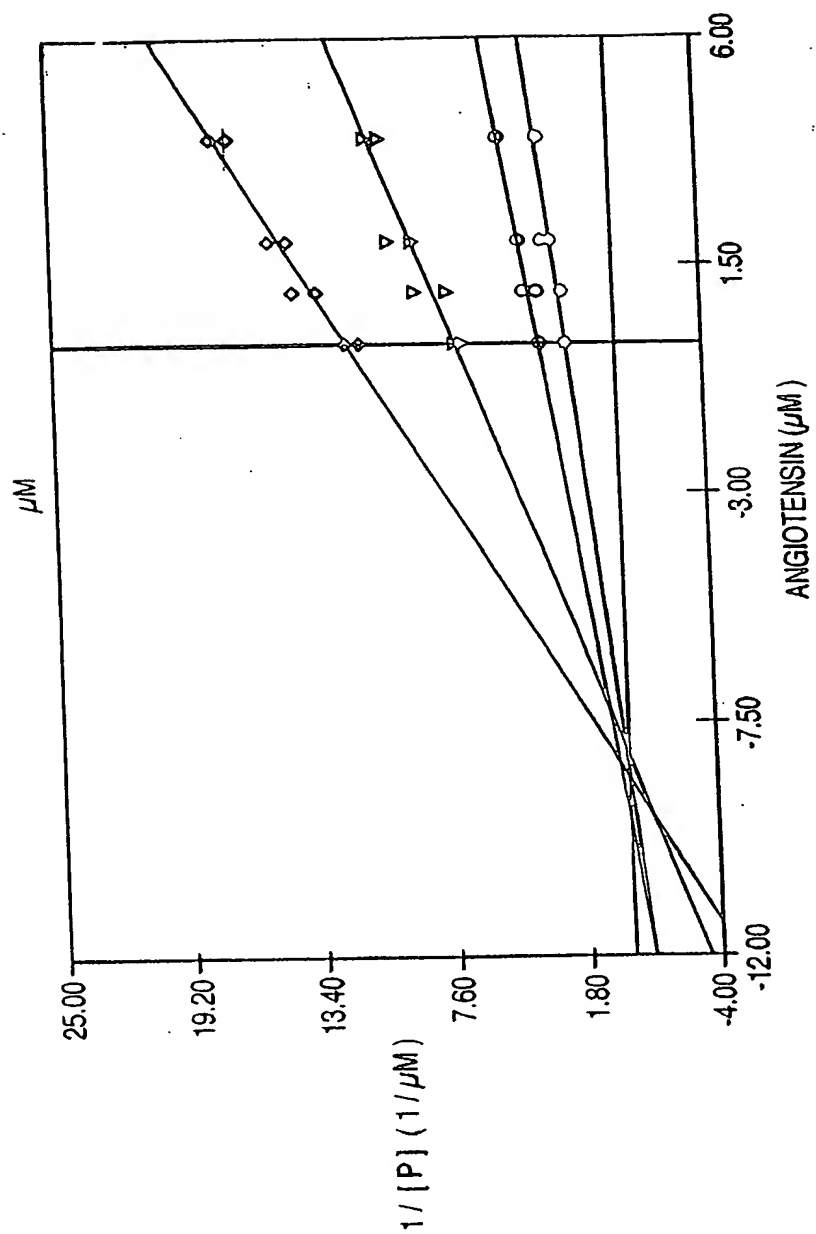


Fig. 12B

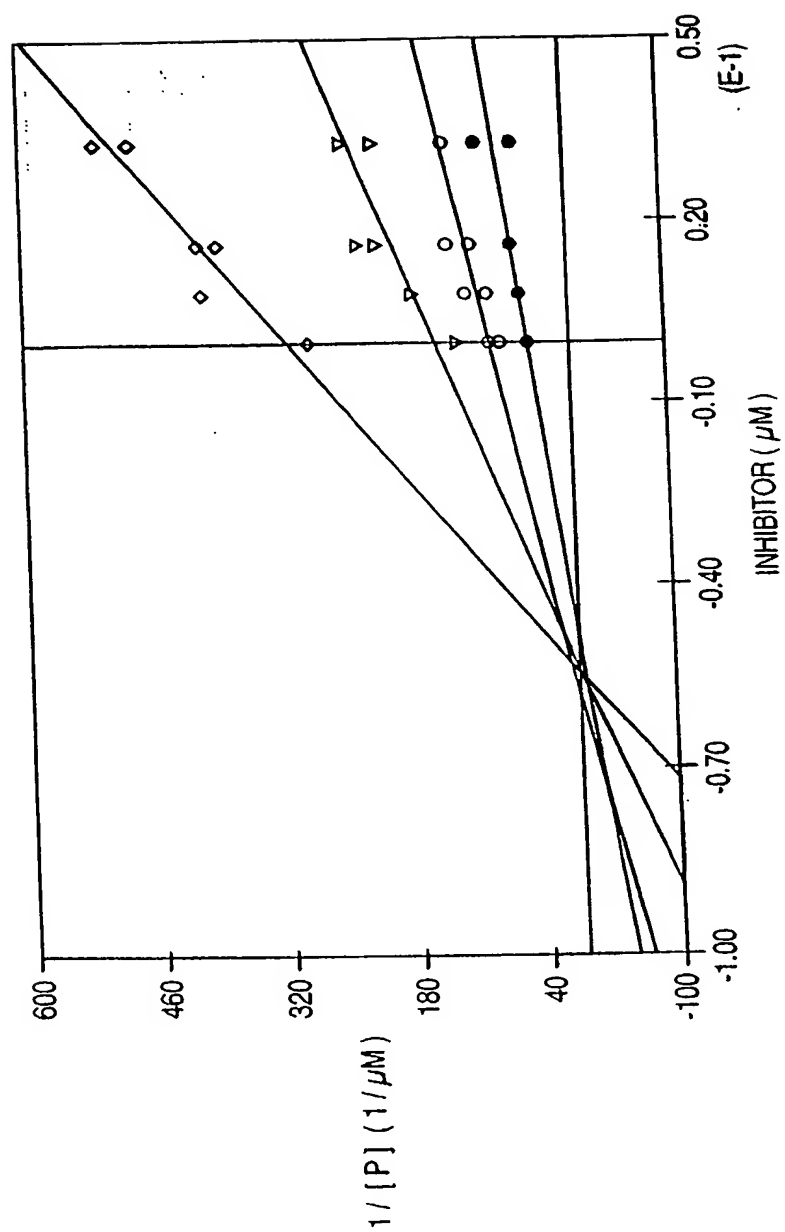


Fig. 13

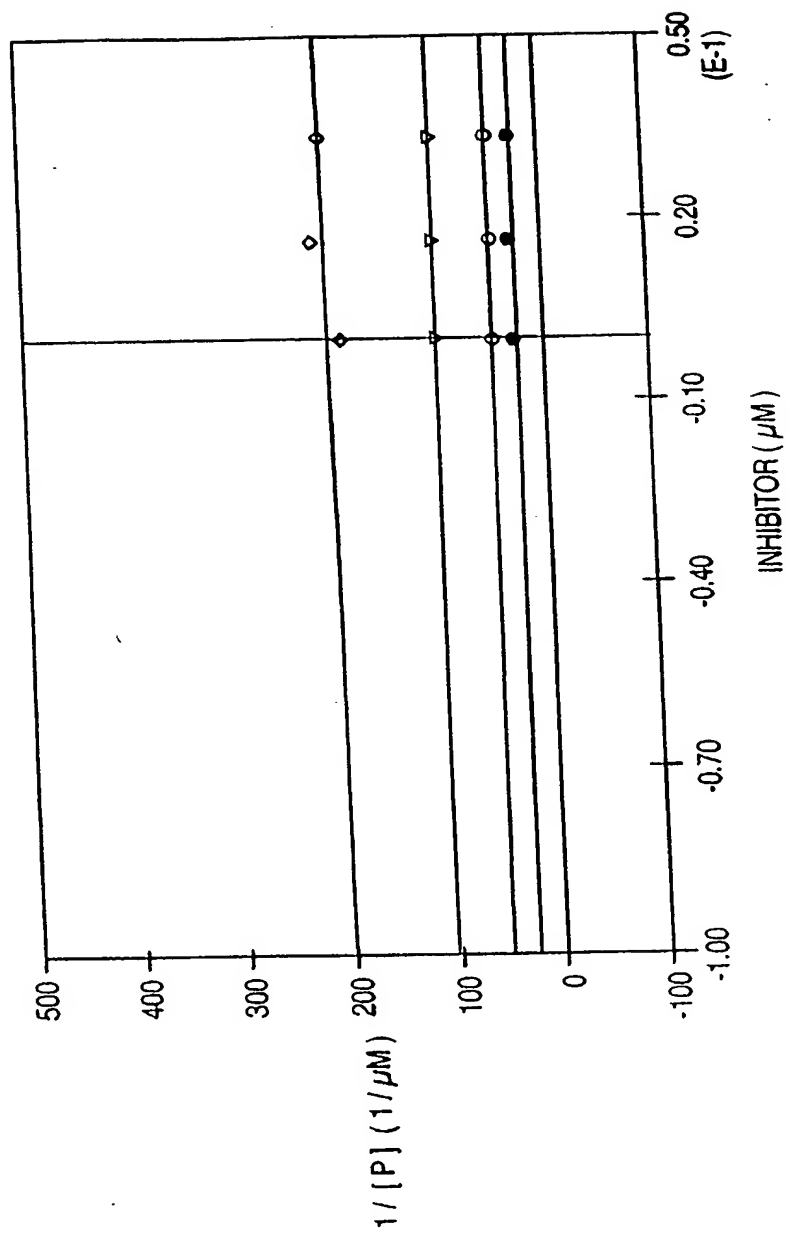


Fig. 14

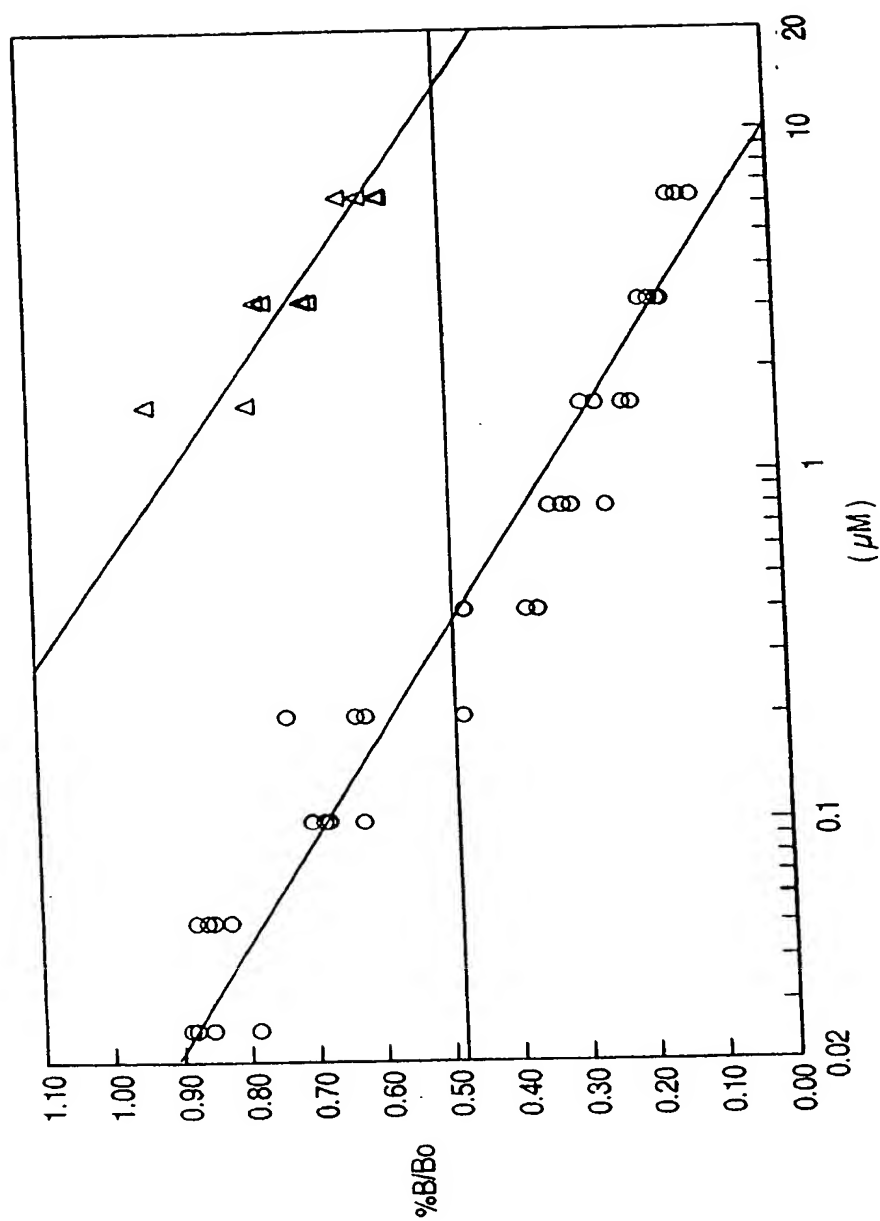


Fig. 15

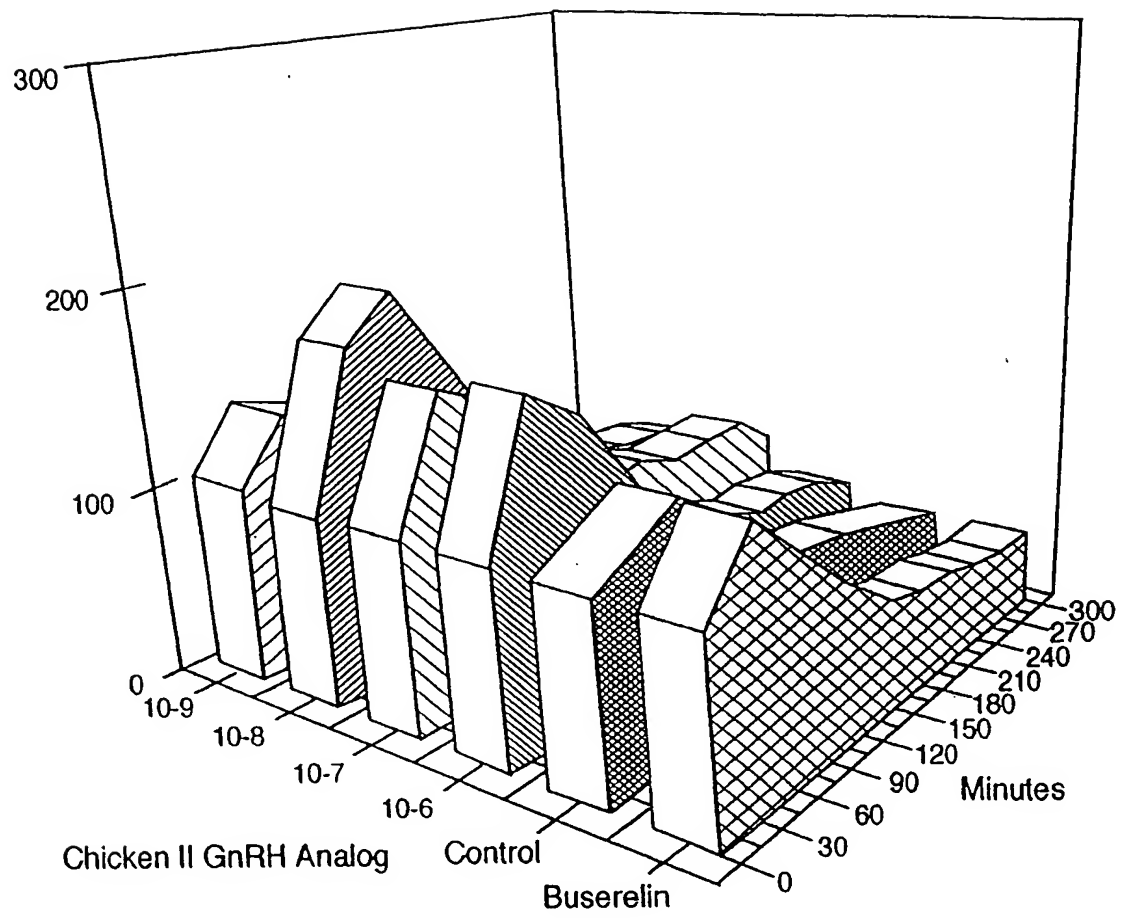


Fig. 16

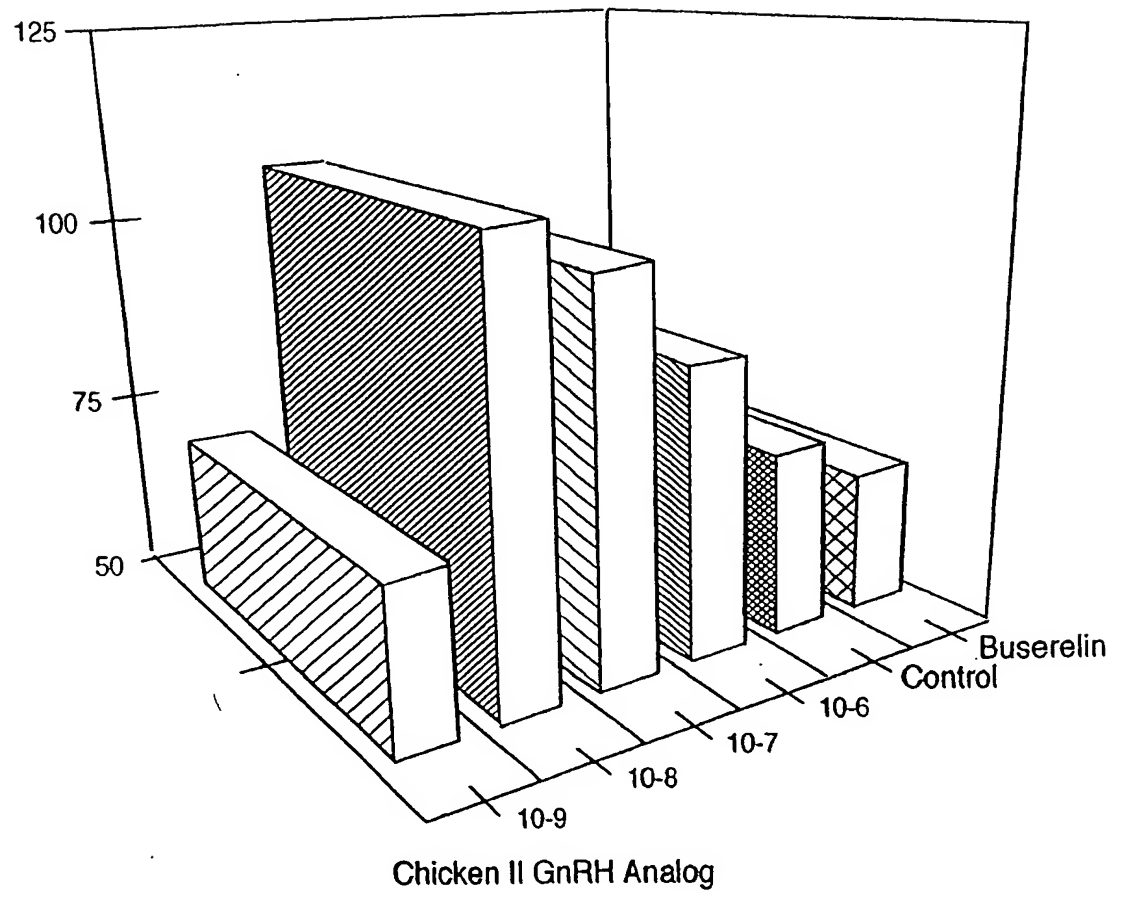


Fig. 17

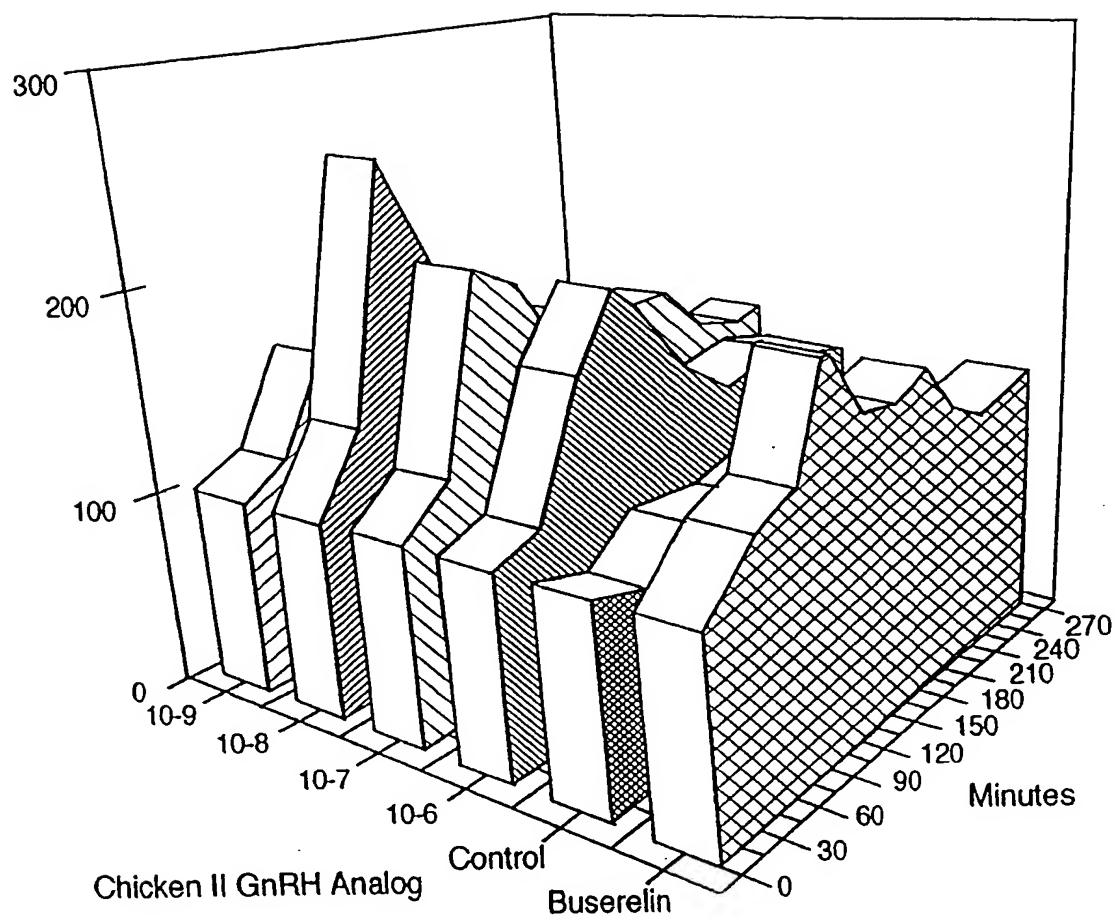


Fig. 18

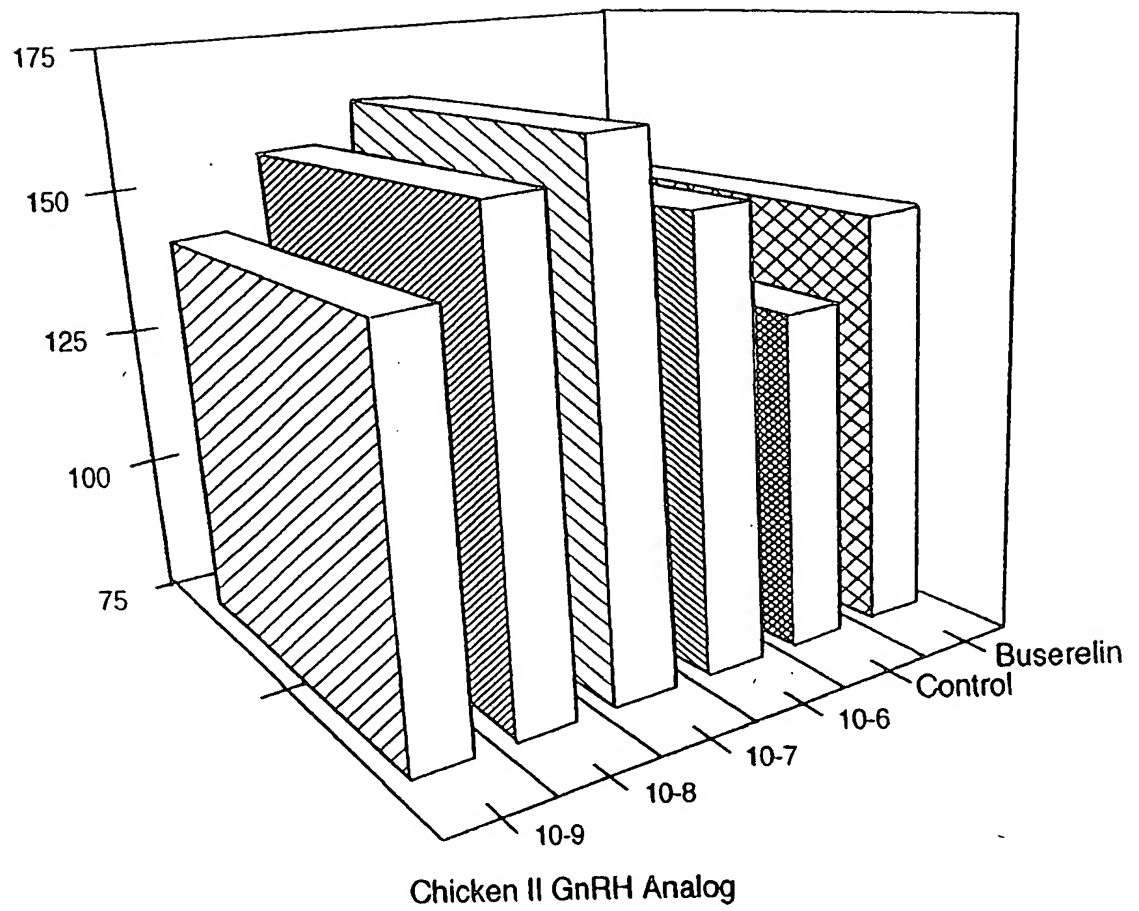


Fig. 19

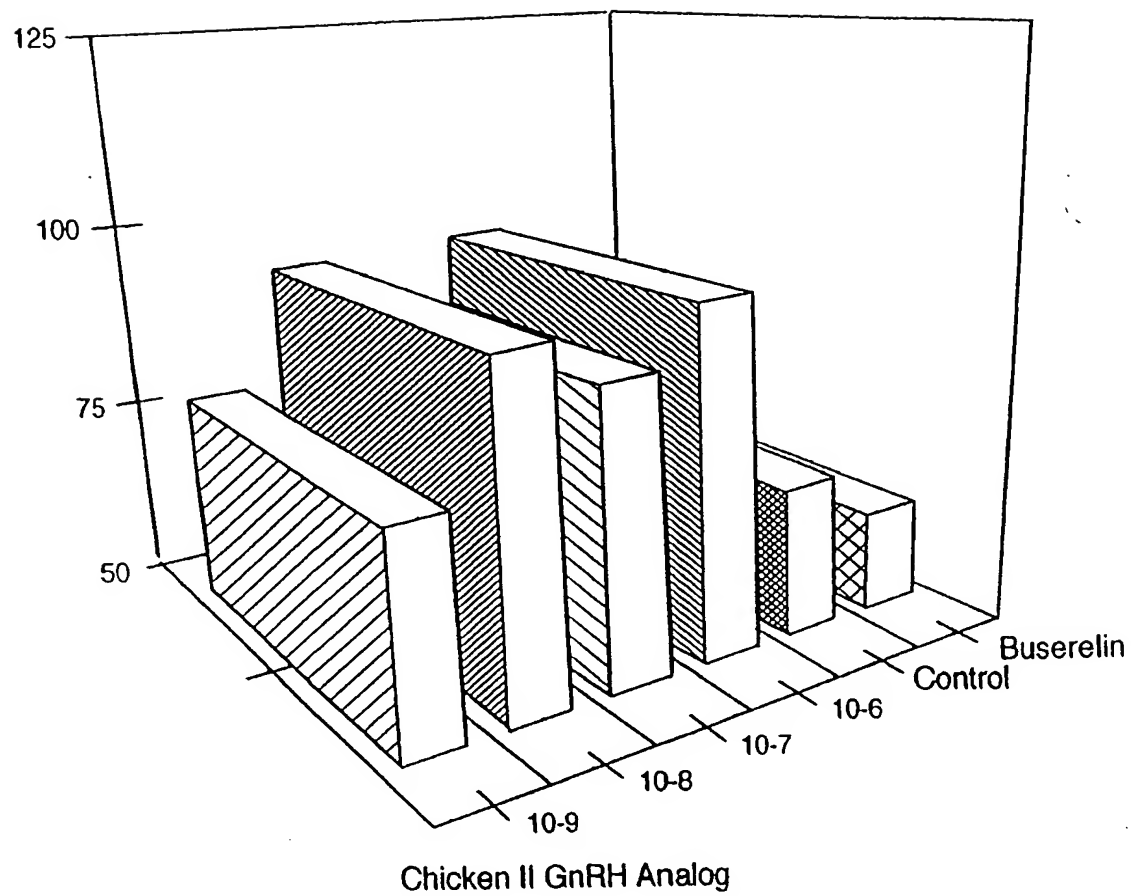


Fig. 20

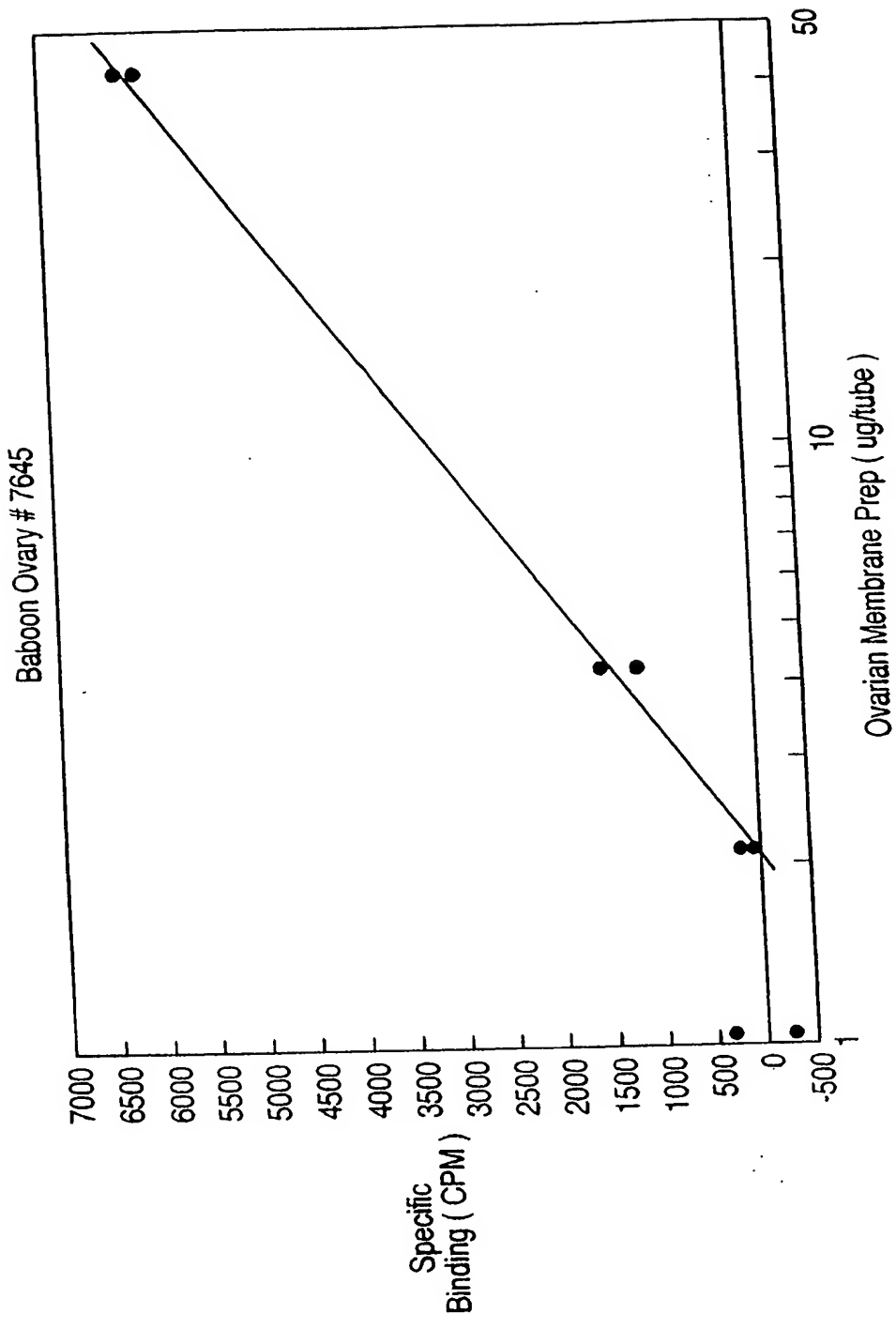


Fig. 21

Baboon Ovary # 7645

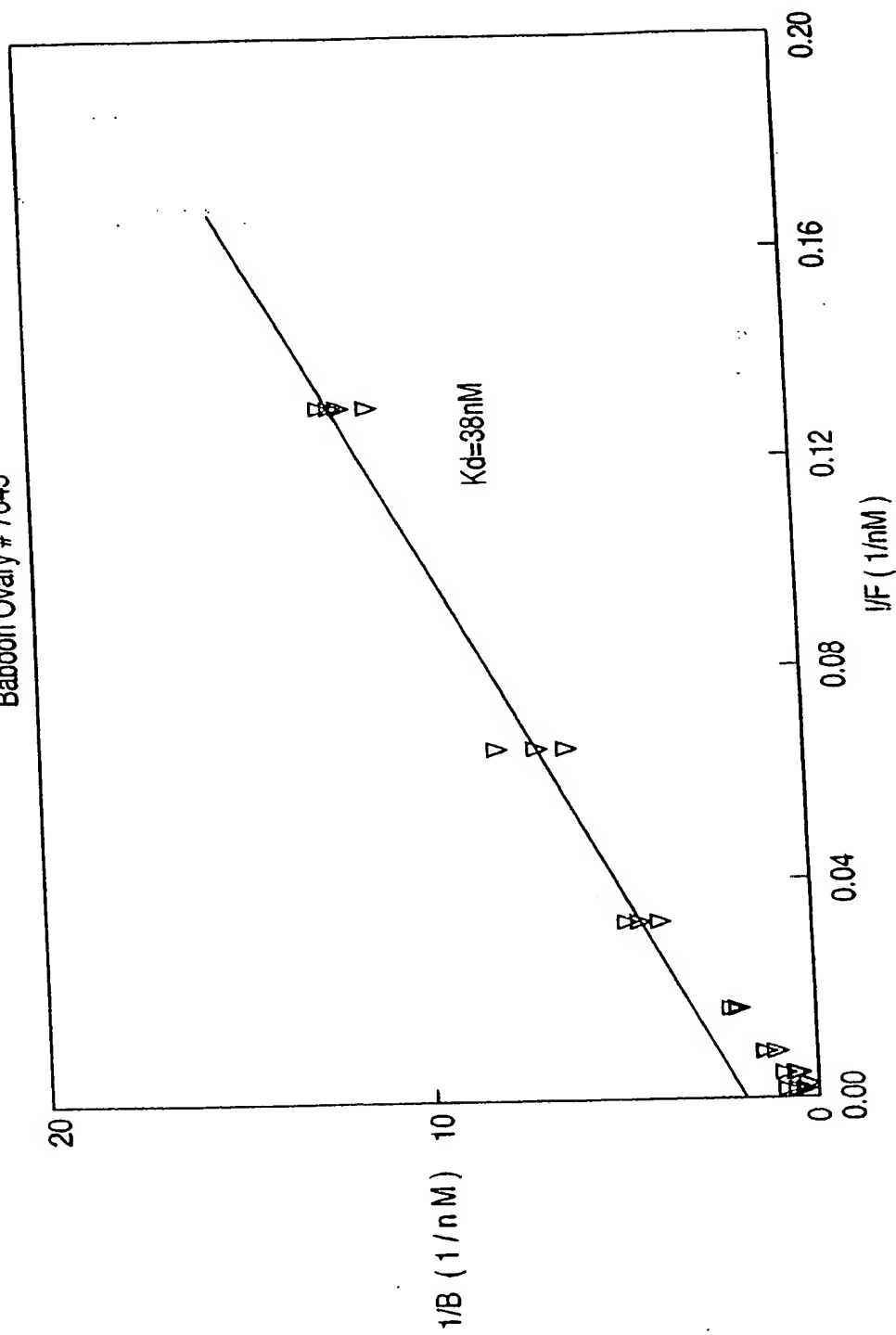


Fig. 22

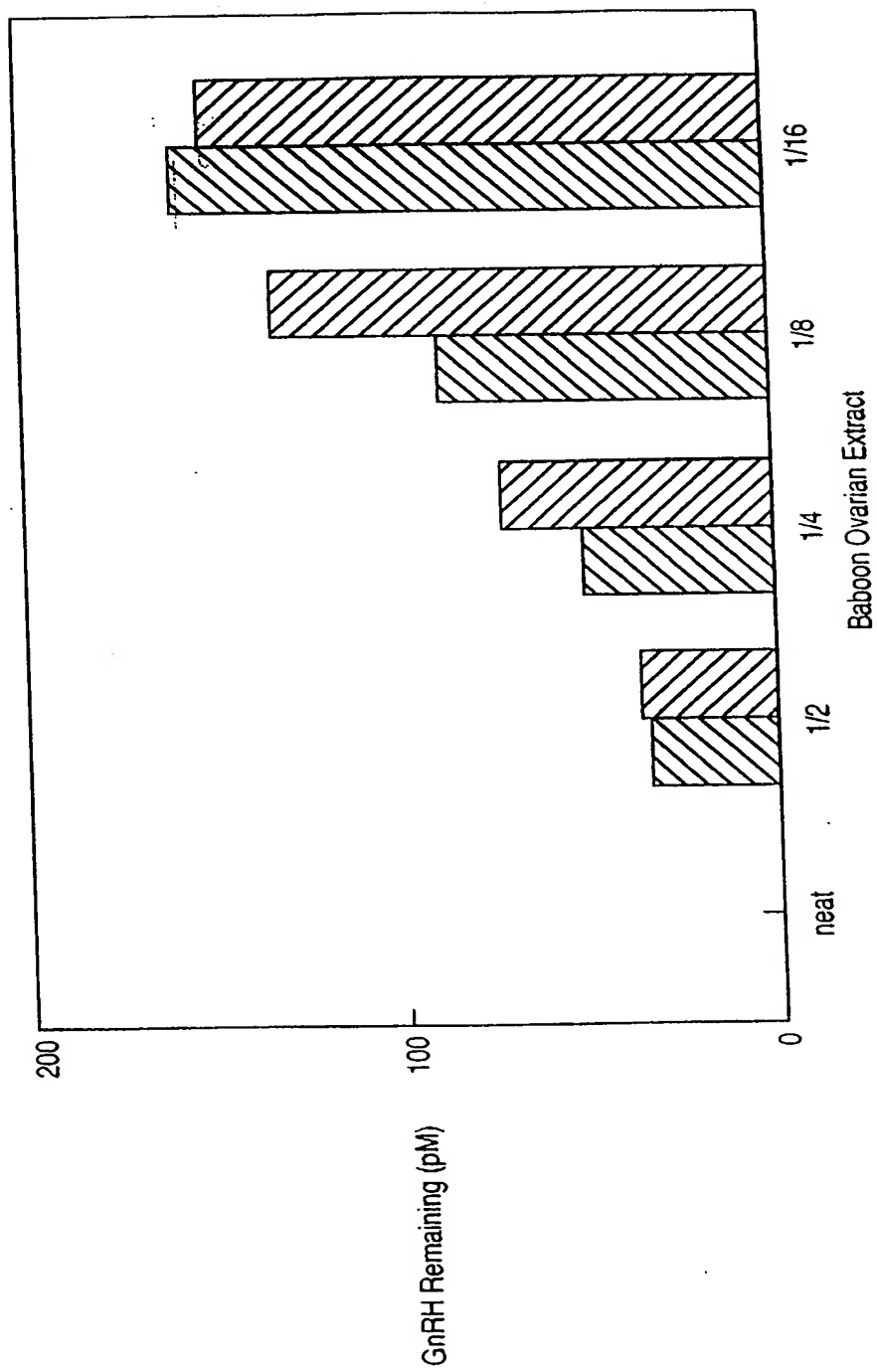


Fig. 23

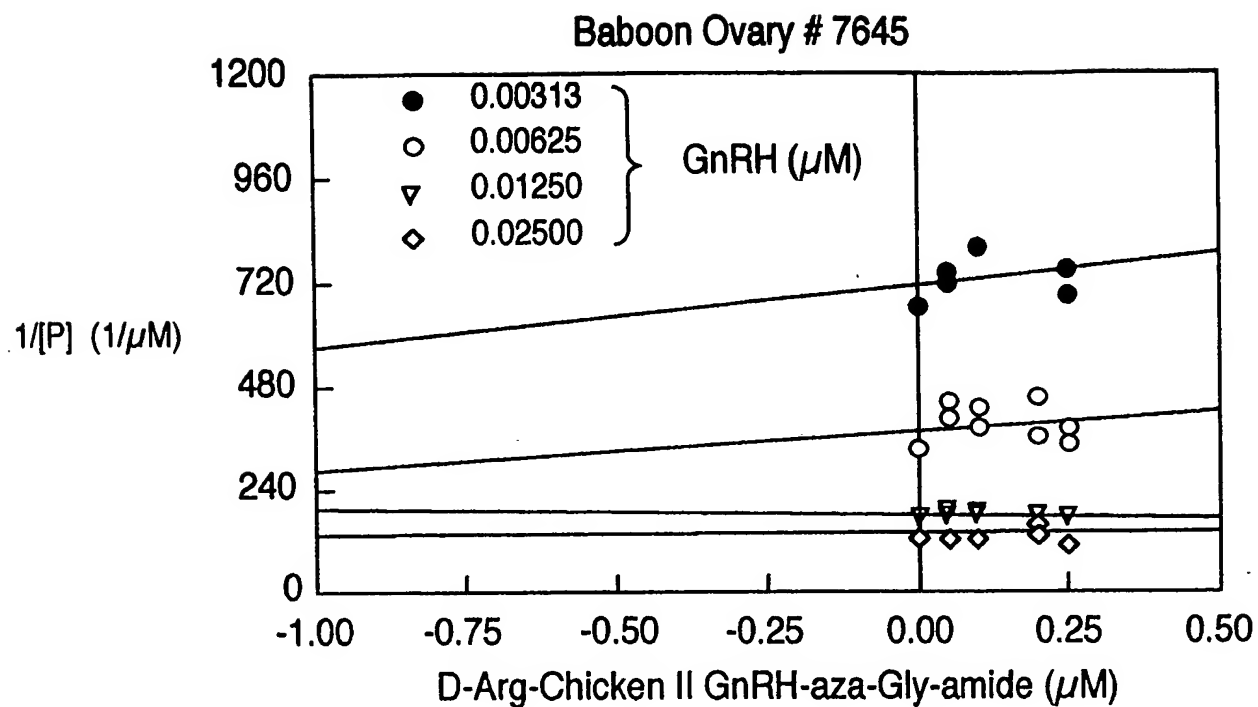


Fig. 24A

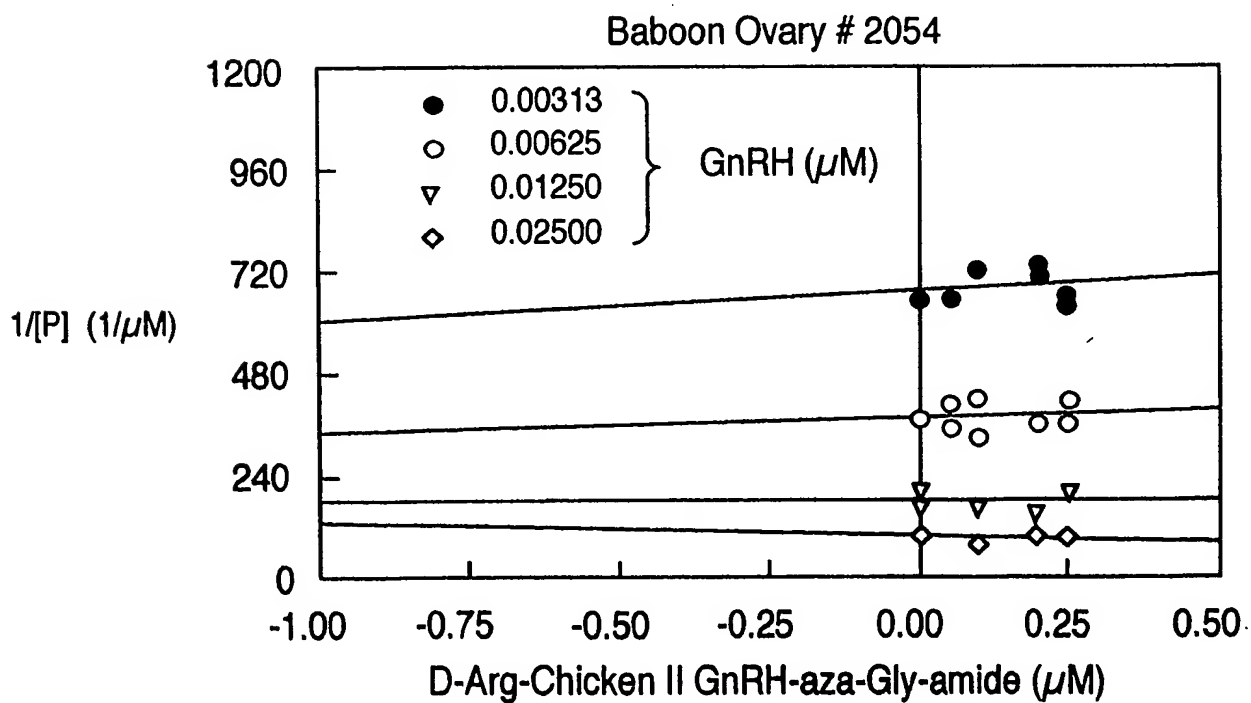


Fig. 24B

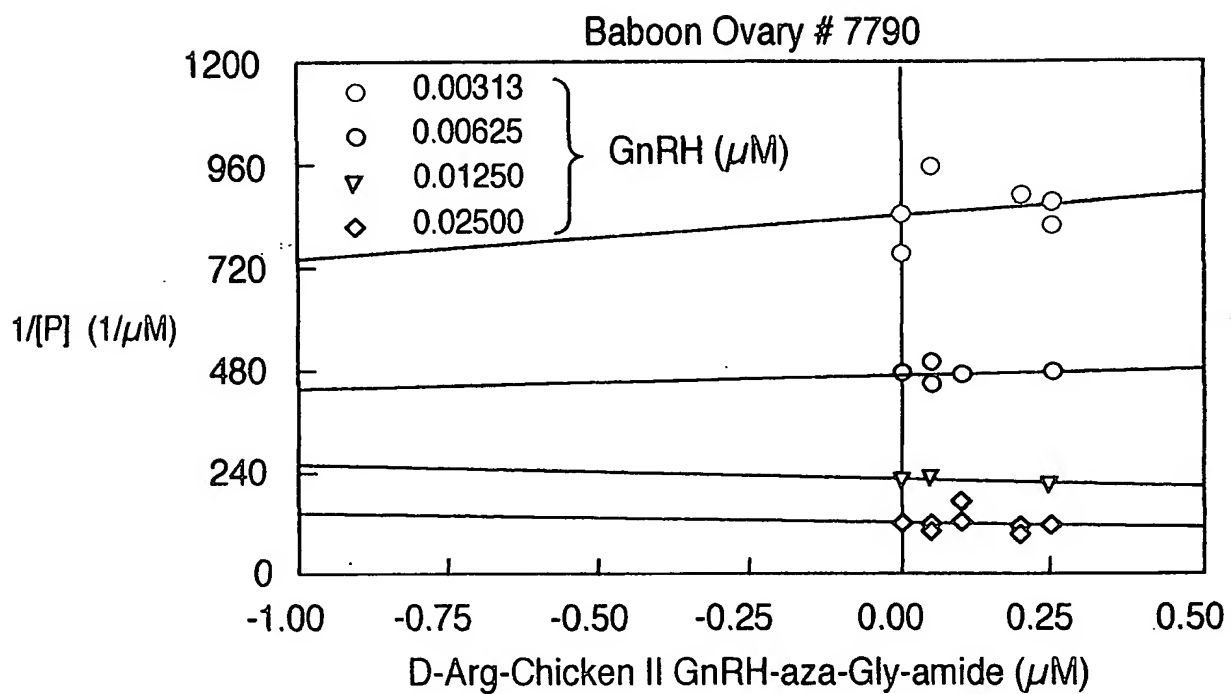


Fig. 24C

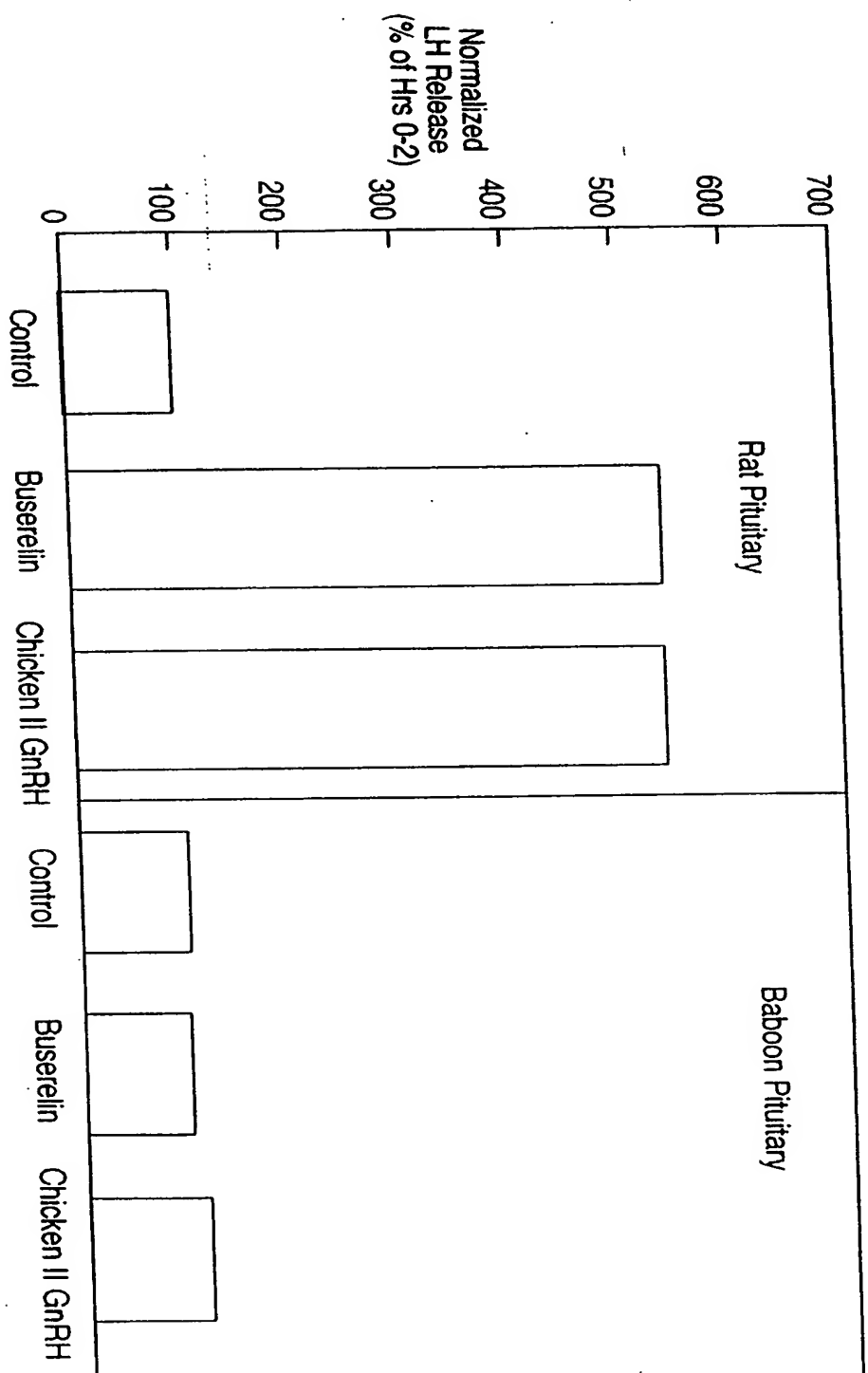


Fig. 25

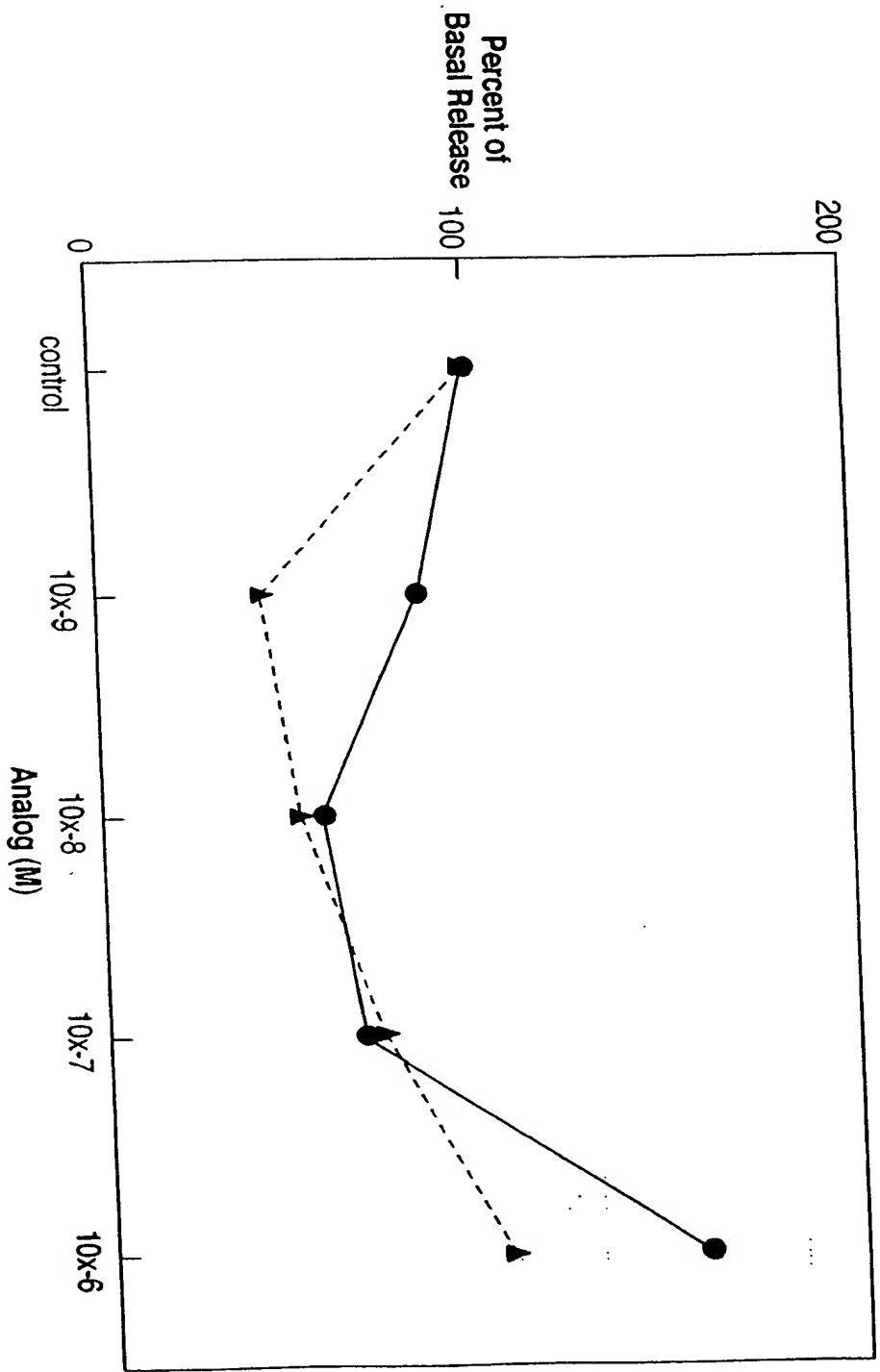


Fig. 26

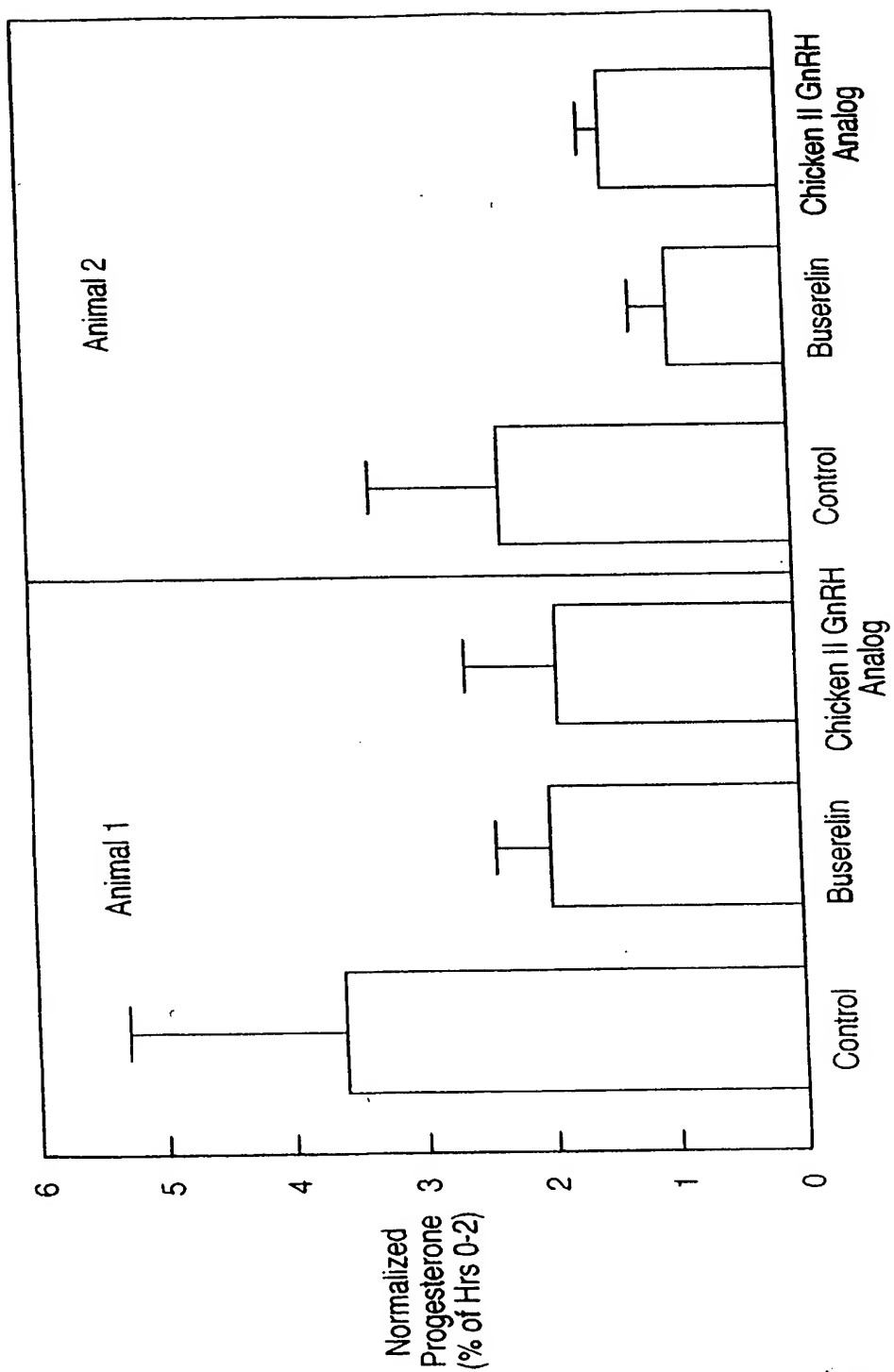


Fig. 27

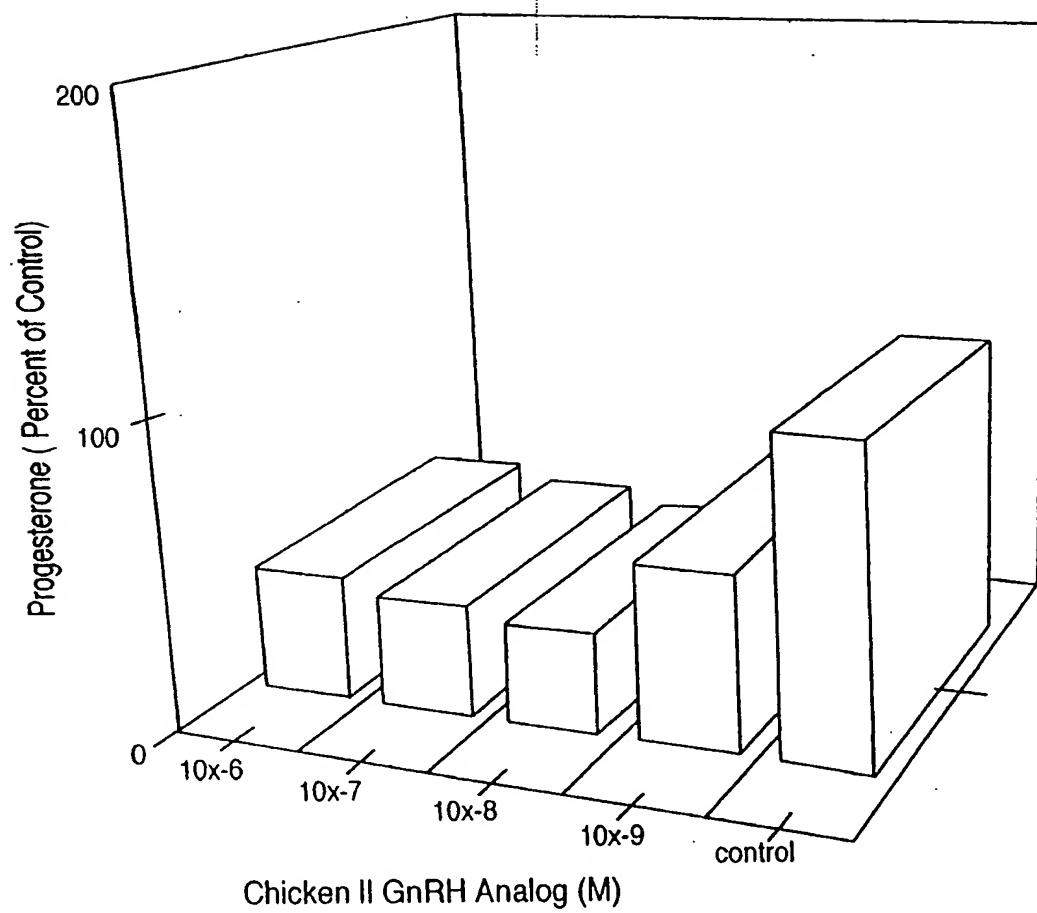


Fig. 28

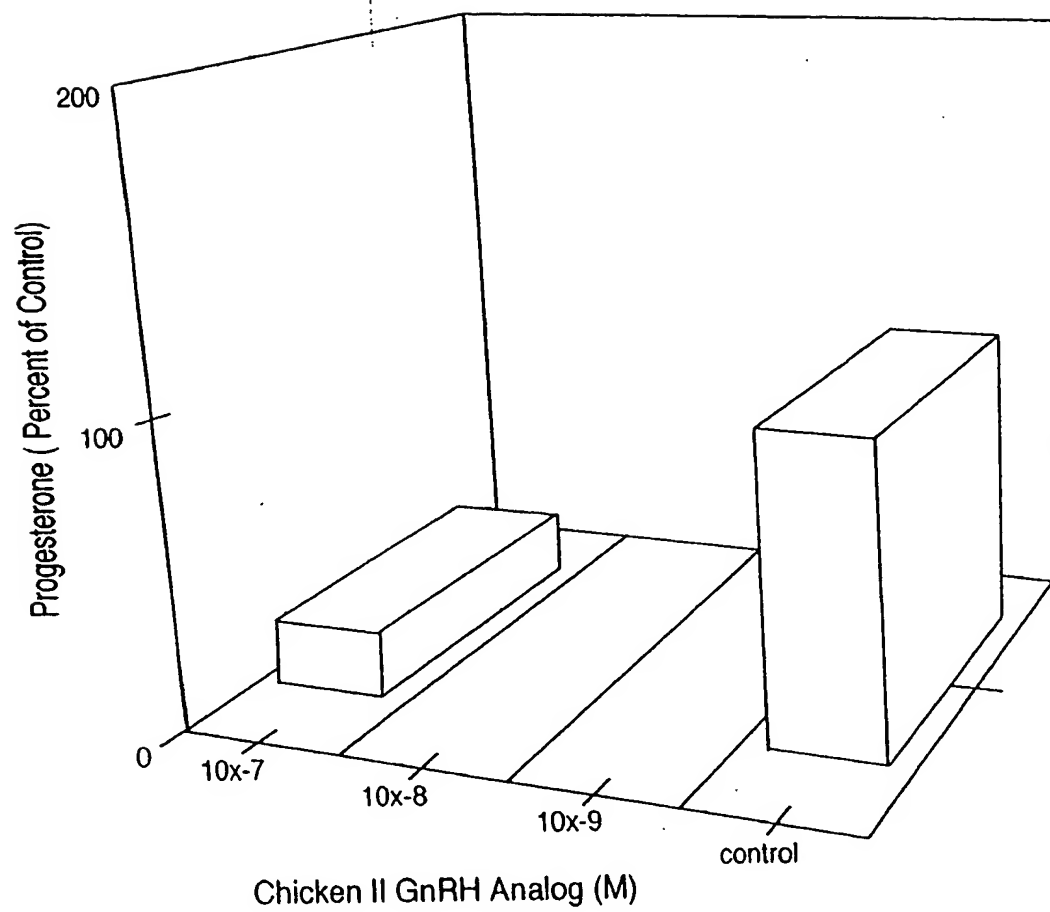


Fig. 29

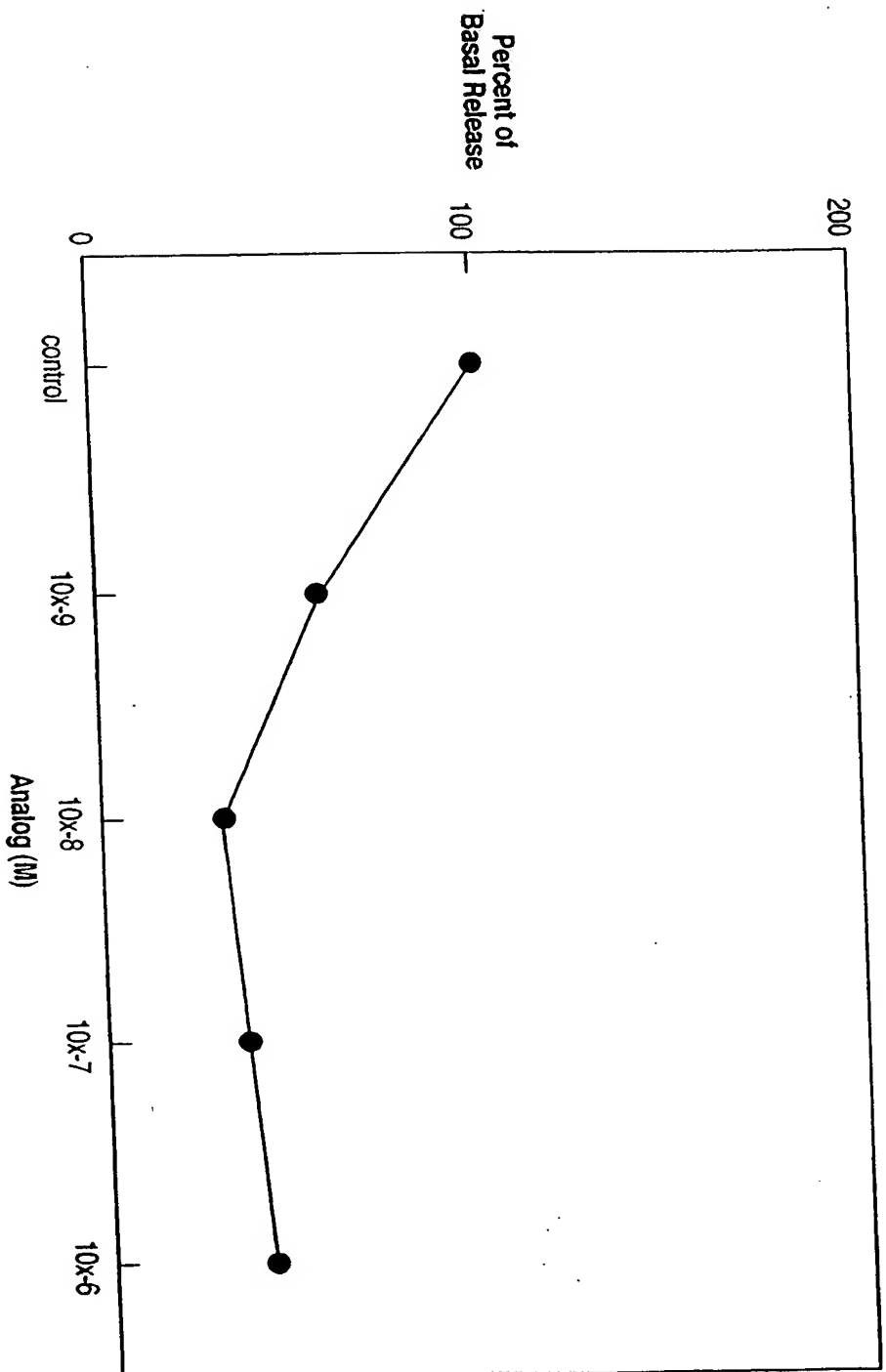


Fig. 30

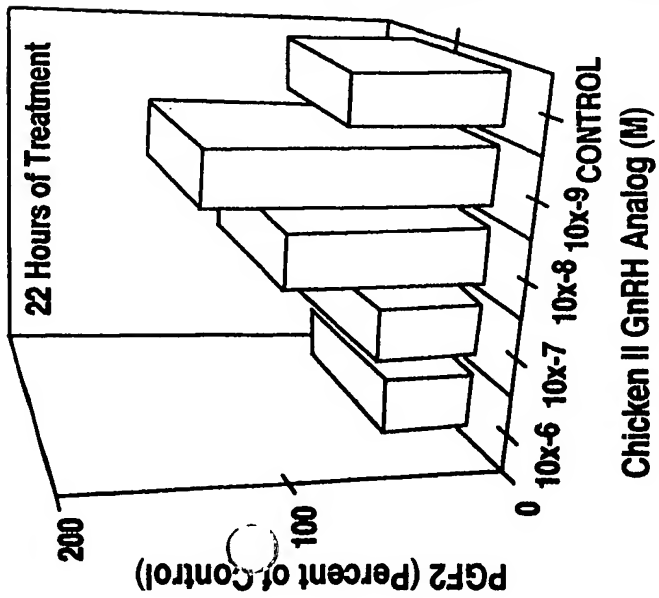


Fig. 31A

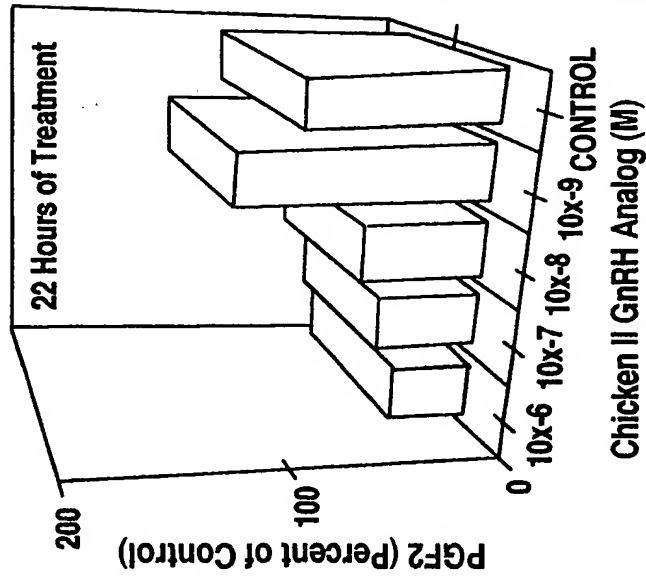


Fig. 31B

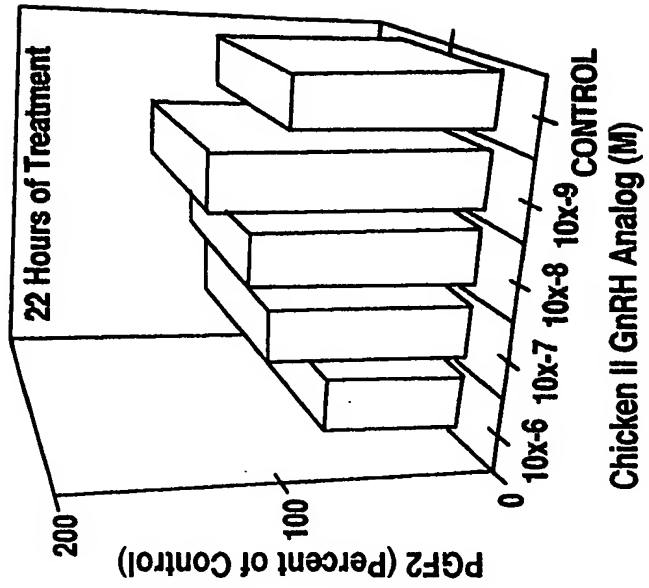


Fig. 31C

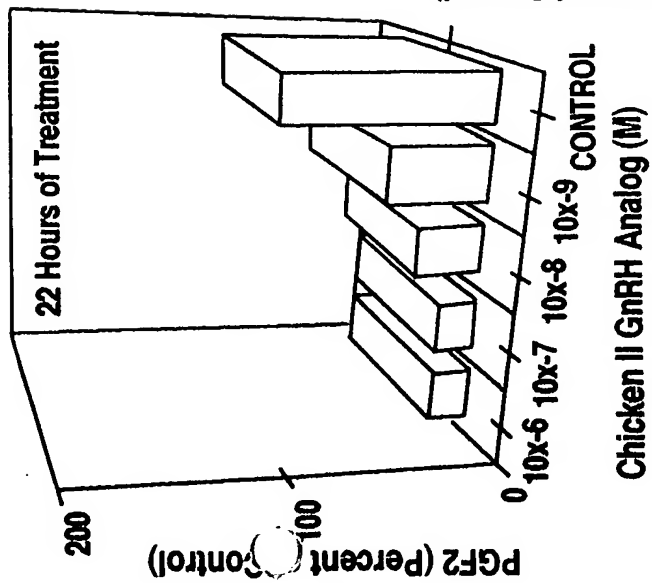


Fig. 31D

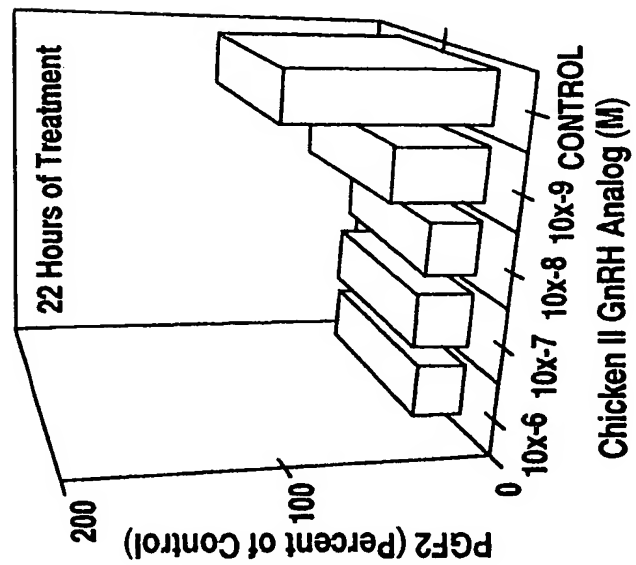


Fig. 31E

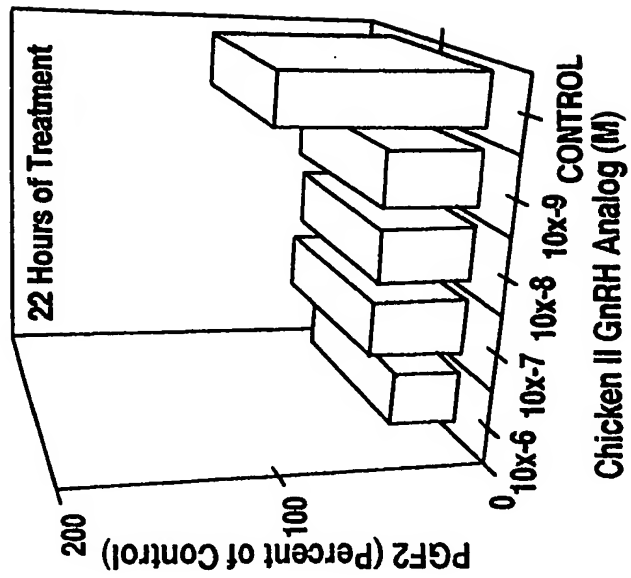


Fig. 31F

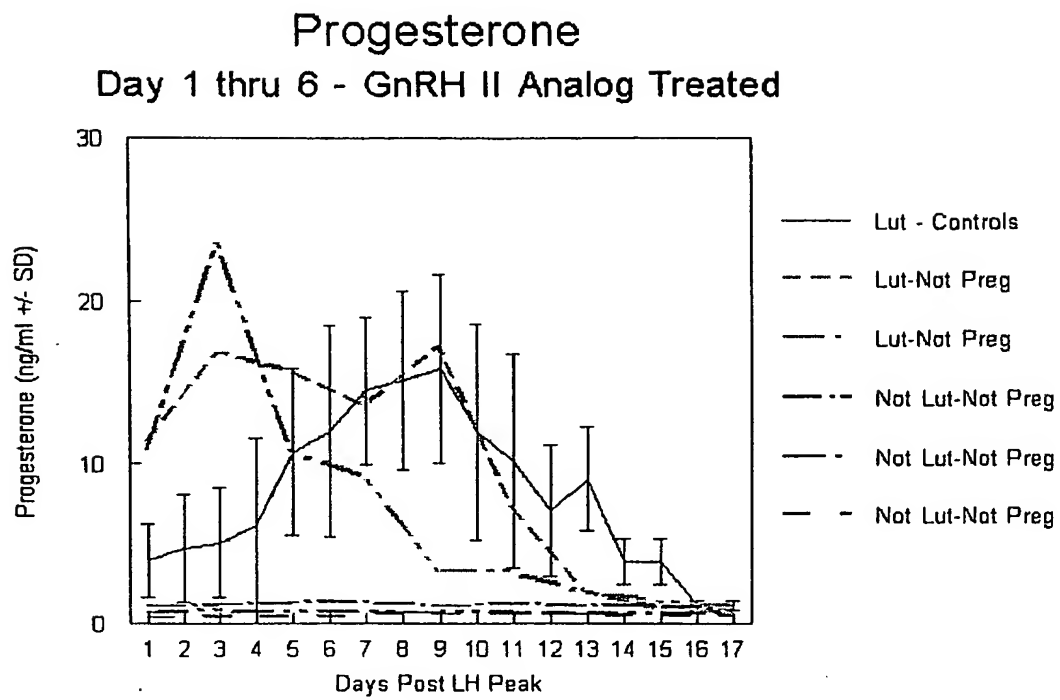


Figure 32

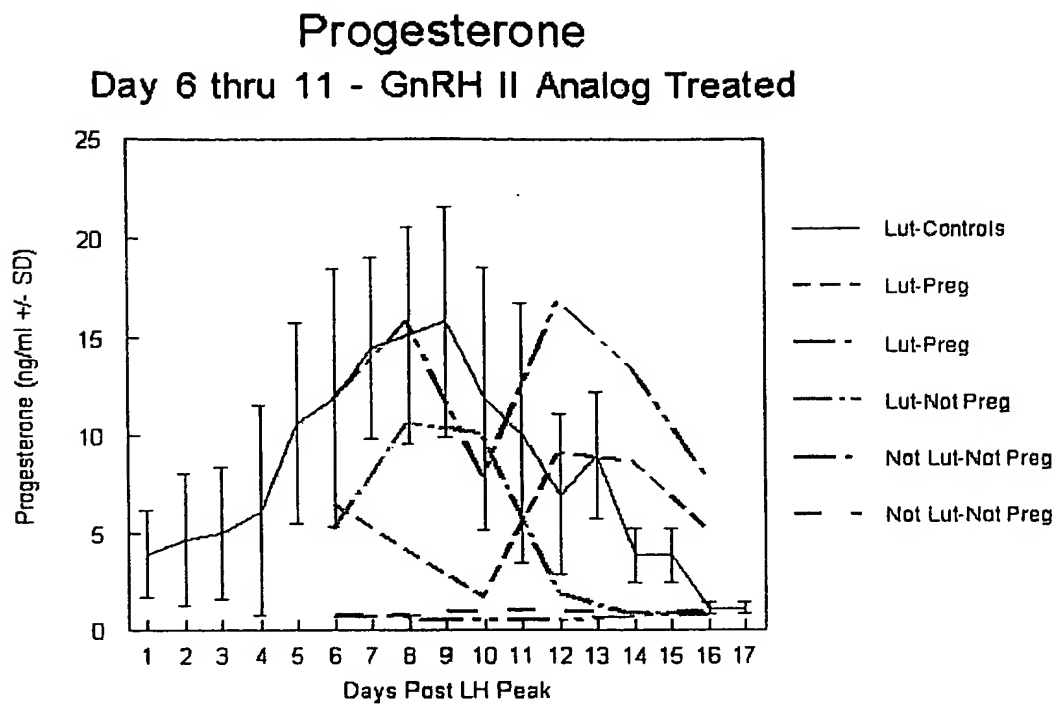


Figure 33

Progesterone

Day 11 thru 16 - GnRH II Analog Treated

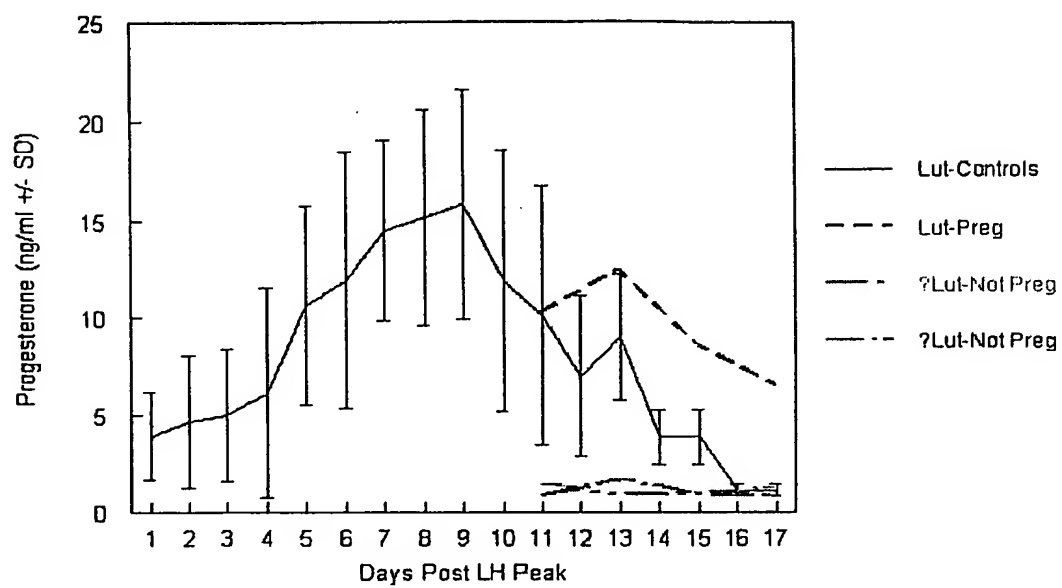


Figure 34

Progesterone

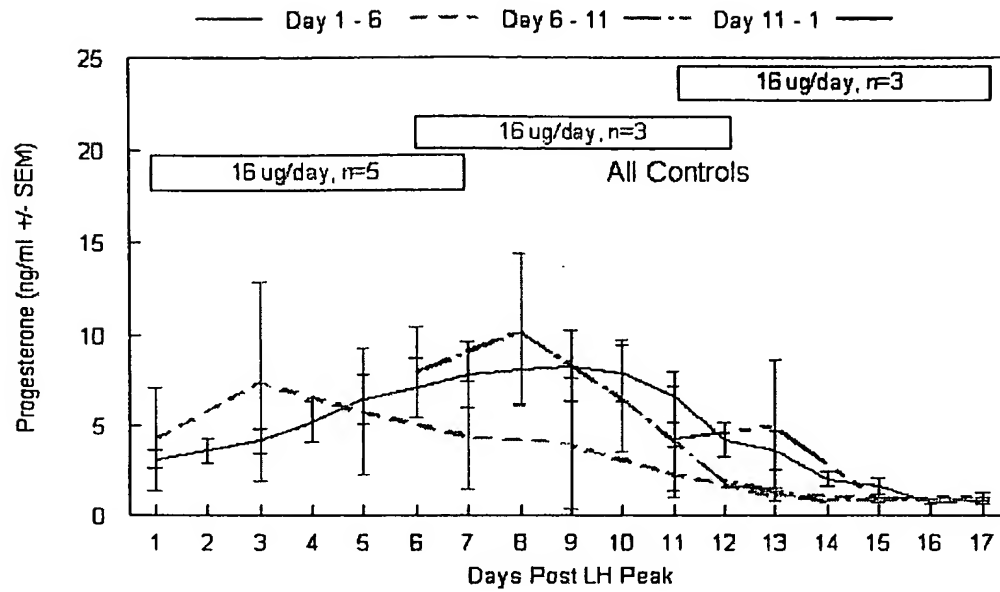


Figure 35

Chicken II GnRH in Human Seminal Vesicle



Figure 36

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Chicken II GnRH in Human Epididymis

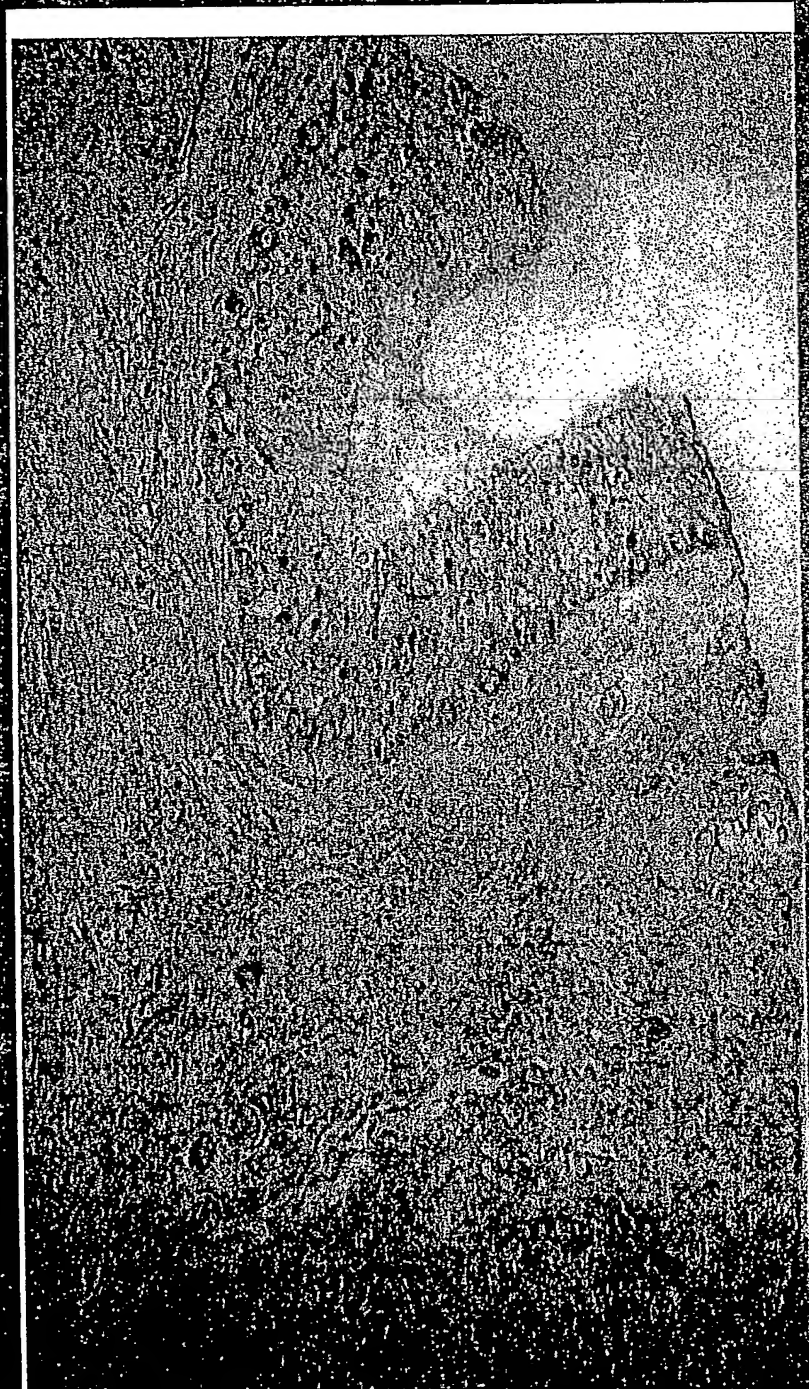


Figure 37

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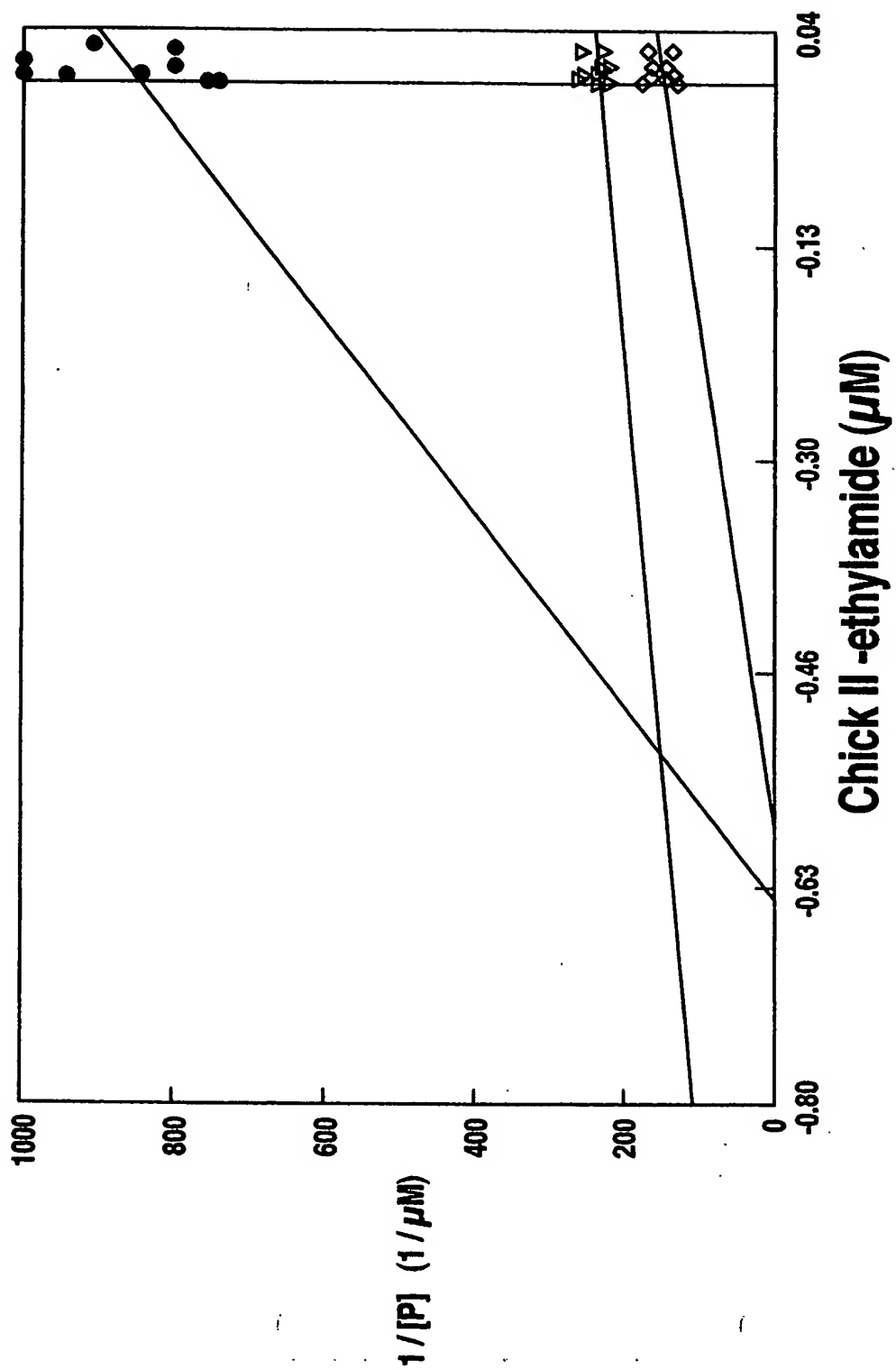
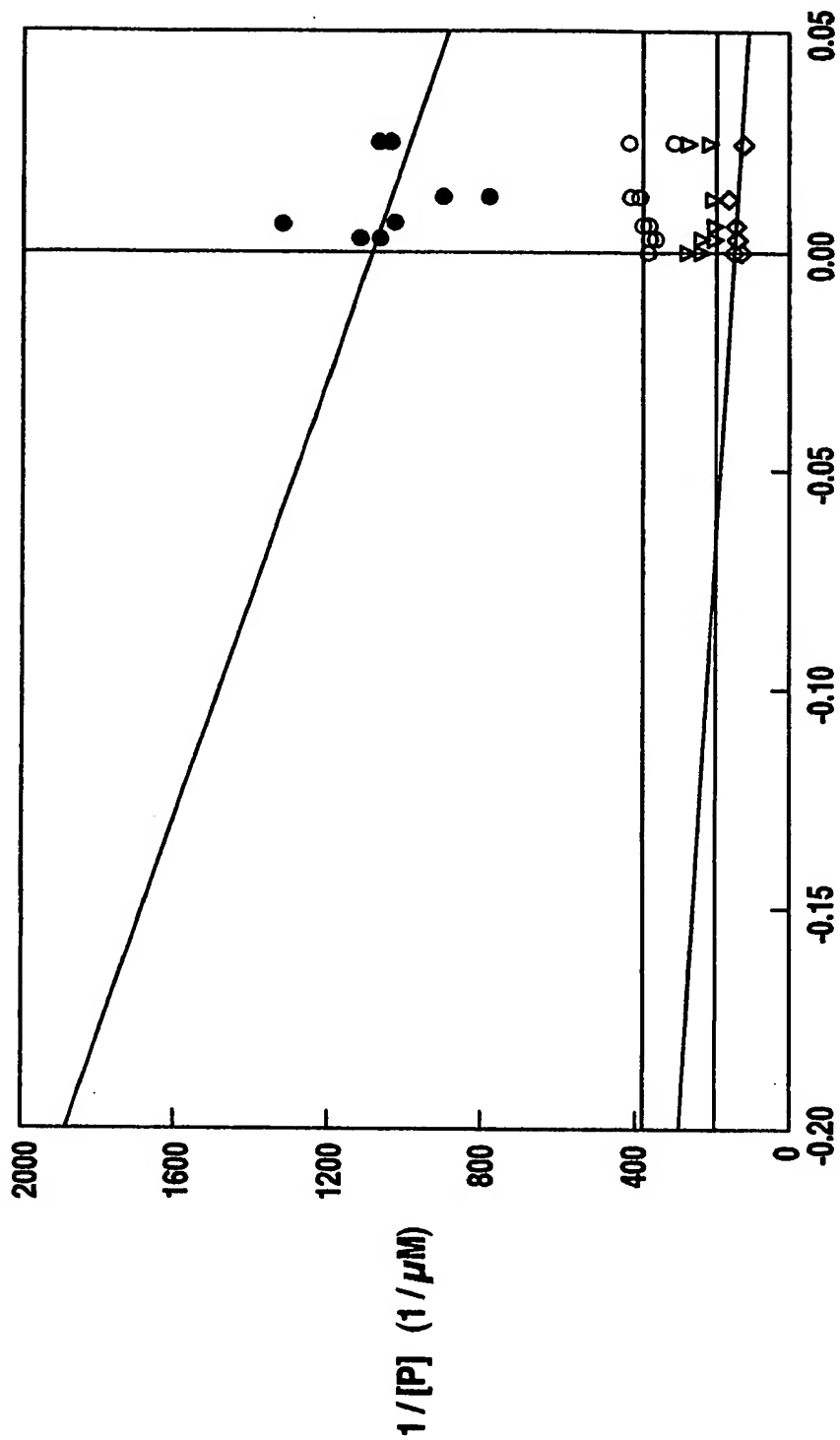
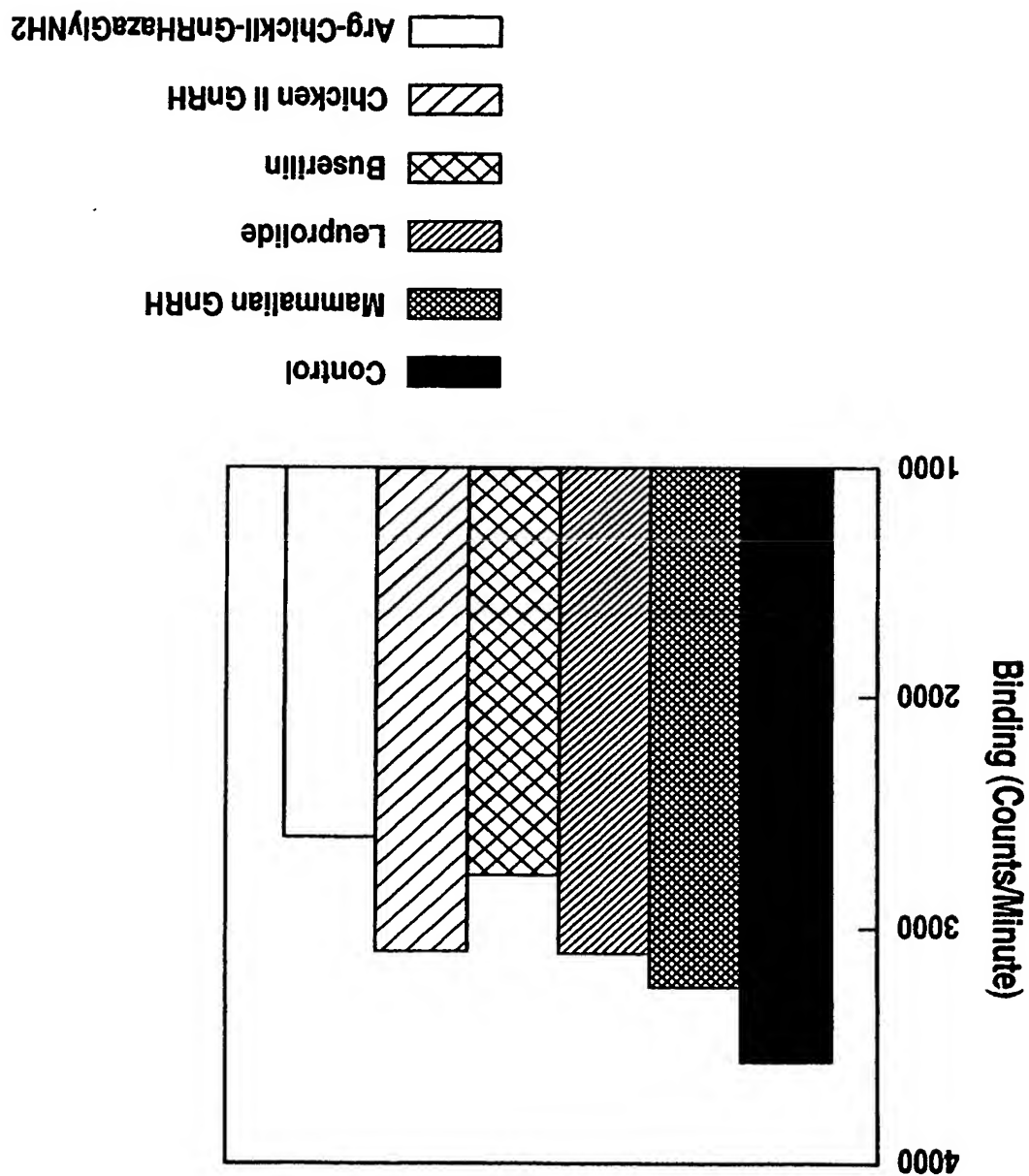


FIGURE 38



D-Arg(6)-Chicken II-aza-Gly(10)-amide (μM) (SEQ ID NO. 2)

FIGURE 40



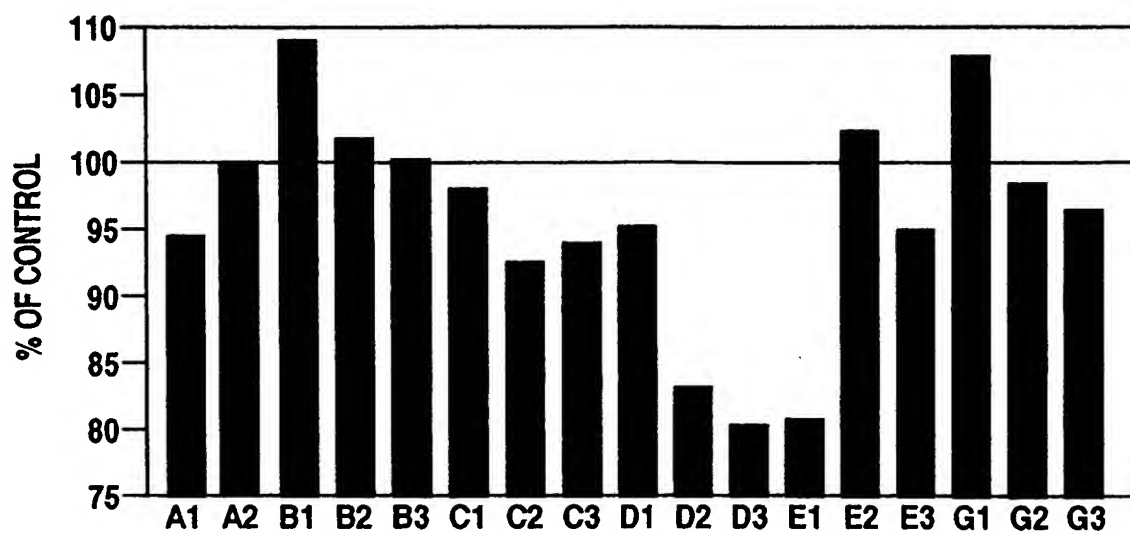


FIGURE 41

| | |
|--|----------------|
| Analog of GnRH | |
| Mammalian | 30 |
| Lamprey | 20 |
| Salmon | 300 |
| Chicken I | 80 |
| Chicken II | 200 |
| Chicken II EA (10) | 130 |
| Chicken II D-Arg (6), aza-Gly (10) amide (SEQ ID NO. 2) | >200 |
| Salmon II D-Arg (6), aza-Gly (10) amide (SEQ ID NO. 4) | 200 |
| Mammalian D-Trp (6) | 20 |
| Mammalian EA (10) | 70 |
| Mammalian D-Trp (6), EA (10) | 60 |
| Mammalian D-Leu (6), EA (10) | 80 |
| Mammalian But-D-Ser (6), EA (10) | 110 |
| Mammalian Im-bzl-D-His (6), EA (10) | >200 |
| Antide | 120 |

FIGURE 42